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Question # 1 of 8

Time Left: 63 sec

The correct option of a perpetual bond $\int_0^t D(t)e^{-rt}e^{-rt}$ is that it depends on cash stream and discount rate only?

Select the correct option

Reload Math Equation

False



True



Click to Save Answer & Move to Next Question



Question # 2 of 8

The capital accumulation function from investment function, $I=90t^{1/2}+17$ will be $60t^{3/2}+c$?

Select the correct option

Reload

True



False



correct

Click to Save Answer & Move to



Post-Assessment

Question # 2 of 9

The integration of the function $I(t) = 4t^2 + t$ will be $\frac{4t^3}{3} + \frac{t^2}{2} + c$?

Select the correct option

☐

False

☒

True

Reload

Click to Save Answer & Move to Next

Activate
Go to Question

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22°C Haze

Galaxy A12

8 December 2023 7:38 pm

Post-Assessment

Question # 9 of 10

Definite integral can be expressed as the sum of finite number of definite sub-integral. This property of definite integrals can be termed as Multiplicative property

Select the correct option

☐	False
☒	True

Click to Save Answer & Move to Next Q

Galaxy A12

8 December 2023 8:02 pm

Question # 1 of 2

Which of the following is the true option for the derivative of a total function?

Select the correct option

- ☐ None of given options
- ☐ It represent the marginal change
- ☒ It represent the average change
- ☐ It represent the percentage change

Click to Save

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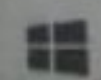
Question # 2 of 10

If the two limits of the integration are identical then the value of the definite integral will be equal to one?

Select the correct option

☒	False
☐	True

sir topic number ki 3 example ma +2x na magar ap na a gay ja ka _ sign use kiya na kasay kindly help me.



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Galaxy A12

8 December 2023 8:00 pm



Post-Assessment

Question # 7 of 8

Time Left: 80 sec(s)

The integration for the number of shops in a chain of local grocery store after t months, $dn/dt = 120t^{-1/2} = 240t^{1/2} + c$

Select the correct option

Reload Math Equations

False



True



correct

Click to Save Answer & Move to Next Question

Post-Assessment

Question # 4 of 6

The integration of natural exponential supply function $Y = 3e^{5x}$ will be $\frac{3e^{5x}}{3} + C$?

Select the correct option

☐ True

☒ False

Galaxy A12

8 December 2023 7:57 pm

dear sir, topic no 12 ki numerical example ka answer -705 a rana na (show ne negative relationship between the

Question # 2 of 2

Which of the following the correct option for the average function from a total function graphically?

Select the correct option

- ☒ Slope of the total function
- ☐ Ray from the origin towards the total function
- ☐ Slope of the marginal function
- ☐ All of the given options

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8 December 2023 7:05 pm

Question # 2 of 9

The integration of the function $I(t) = 4t^2 + t$ will be $\frac{4t^3}{3} + \frac{t^2}{2} + c$?

Select the correct option

☐

False

☒

True

Reload

Click to Save Answer & Move to Next

Activate
Go to Next

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22°C Haze

Galaxy A12

8 December 2023 7:38 pm

Question # 2 of 9

The integration of the function $I(t) = 6t^2$ will be equal to $2t^3 + c$?

Select the correct option

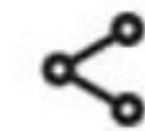
☒	True
☐	False

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8 December 2023 7:26 pm



True



Assessment Quiz

The marginal labor cost function is given by the equation $MLC = 5L$. Successive labor cost of employing 1 to 4 units of labor is found using the definite integral is 64. This means that marginal cost of hiring one labor is 64.

Select the correct option



Reload Math Equations

False





Post-Assessment

Question # 3 of 7

Time Left: 85

Which of the following is the correct option for an integrated function $M(Y)=0.7Y^2-2Y+c$?

Select the correct option

Reload Math Equat



Calculated integral does not exist



Calculated integral is definite



Calculated integral is general



Calculated integral is undetermined

correct

Click to Save Answer & Move to Next Question

Question # 7 of 9

Which of the following is the integrated value of the function $y = 2x$ will be $x^2 + c$?

Select the correct option

☐	True
☒	False

Galaxy A12

8 December 2023 7:23 pm



Post-Assessment

Question # 4 of 6

Time Left: 83 sec(s)

Which of the following the correct option for a new investment project with its excess profit as following

$$NE = \int_0^3 [(10 + 5t)] - (50 + t^2) = 650?$$

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|--------------------------------------|
| ☒ | Excess profit in total 3 months |
| ☐ | Excess profit of 3rd unit of output |
| ☐ | Excess profit of 7 units of output |
| ☐ | Average profit of 3 months of output |

Click to Save Answer & Move to Next Question



Assessment Quiz



Question # 4 of 8

Time

The correct option when $a \neq 0$, $b \neq 0$ in st
first-order differential equation $dy/dt +$
it will have complementary and particu

Select the correct option



Reload Mo

False



True



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Assessment Quiz



Post-Assessment

Question # 4 of 6

Time Left: 82 sec(s)

The correct option for the integrated value of $C(t)=20$ in the farmer's crop rate $dC/dt=0.14t^2+0.2t+12$ if time period is 7 months = Crop after 7 months will be 20 units?

Select the correct option

Reload Math Equations

☐	False
☒	True

Click to Save Answer & Move to Next Question

Post-Assessment

Question # 2 of 6

The integration of exponential supply function $F(x) = 10^{x^2}$ will be $\frac{10^{x^2}}{2x \cdot \ln |10|} + c$?

Select the correct option

☒ True

☐ False

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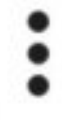
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dear sir , topic nu 12 ki numerical example ka answer -705 a rana na (show ne negative relationship between the price and



Question # 7 of 7

The correct option for the integration of a marginal imports function $M(Y)=100Y - 50Y^2 + c$?

Select the correct option

Relo

☐	False
☐	True

correct

Click to Save Answer & Move to



Assessment Quiz



Post-Assessment

Question # 1 of 6

Time Left: 84 sec(s)

The cost of producing x units of a new product is in hundred dollars, varies between 4 and 16 units, and the firm's average profit is $C = \frac{1}{b-a} \int_a^b f(Q) = 60$ units. The interpretation of this cost value = Average cost between 4 and 16 units of output?

Select the correct option

Reload Math Equations

True



False



Click to Save Answer & Move to Next Question

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Post-Assessment

Question # 8 of 8

Time Left: 84 sec(s)

The formula of the present value of a perpetual bond, $\int_0^t D(t)e^{-rt}e^{-rt}$ is an example of Improper integral ?

Select the correct option

[Reload Math Equations](#)

True



False



[Click to Save Answer & Move to Next Question](#)

Question # 5 of 9

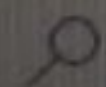
Derivative can be used to find original function from derived function?

Select the correct option

☐	True
☒	False

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8 December 2023 7:22 pm



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Question # 7 of 9

In case, we cannot apply rule of integration by substitution for product or quotient of two differentiable functions, integration by parts can be used to find the solution?

Select the correct option

☒	True
☐	False

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22°C Haz

Galaxy A12

8 December 2023 7:39 pm



Post-Assessment

Question # 2 of 8

Time Left: 80 s

The correct option for the total function from marginal function $MPL=22-30L^2=22L-30L^3+c$?

Select the correct option

[Reload Math Equatio](#)

☐	False
correct	
☐	True

[Click to Save Answer & Move to Next Question](#)

Question # 3 of 9

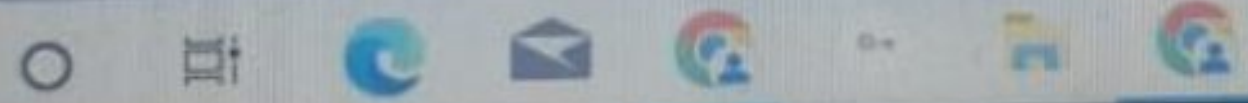
Integration of any function which is either a produce or a quotient of two differentiable functions can be done using sum difference rule?

Select the correct option

☐	False
☒	True

Click to Save Answer

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Post-Assessment

Question # 2 of 6

Time Left: 84 sec(s)

The correct option for the integrated value of $P(t)=3.7$ in the price function of ground beef, $dP/dt=0.02t^2+0.9t+1$ if time period is 9 months?

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|--|
| ☐ | Average price after 9 months will be 30 units |
| ☒ | Average price after 9 months will be 3.7 units |
| ☐ | Average price after 3.7 months will be 9 units |
| ☐ | Average price after 9 months will be 27 units |

[Click to Save Answer & Move to Next Question](#)

Question # 3 of 9

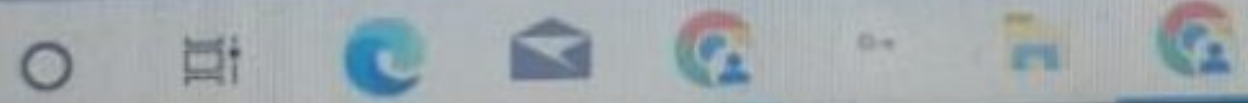
Integration of any function which is either a produce or a quotient of two differentiable functions can be done using sum difference rule?

Select the correct option

☐	False
☒	True

Click to Save Answer

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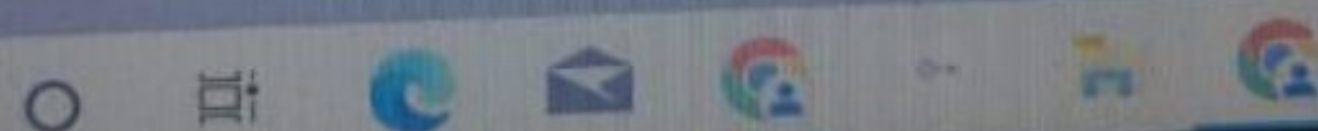
Question # 3 of 9

A constant that appears as a multiple of a function in an integral, comes out of the integral expression?

Select the correct option

☒	True
☐	False

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8 December 2023 7:22 pm



Post-Assessment

Question # 4 of 7

Time

Which of the following is the correct option for an integrated function $M(Y)=0.3Y+2/3$?

Select the correct option

[Reload Material](#)

Calculated integral is definite

correct



Calculated integral does not exist



Calculated integral is general



Calculated integral is undetermined

[Click to Save Answer & Move to Next Question](#)

Post-Assessment

Question # 5 of 6

The integration of exponential demand function $F(x) = 14^{2x}$ will be 28^{3x} ?

Select the correct option

☐	True
☒	False

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8 December 2023 7:57 pm

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Post-Assessment

Question # 3 of 10

Economic applications of improper integrals include a situation with interest from a perpetual bond or the revenue from an indestructible capital asset such as land.

Select the correct option

☒	True
☐	False

Click to Save Answer & Move to

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8 December 2023 8:00 pm

Post-Assessment

Question # 8 of 9

The integration of exponential function $Y = 16^{3x}$ will be $\frac{16^{3x}}{3 \ln |10|} + c$?

Select the correct option

☒	True
☐	False

Click to Save

Assessment Quiz



Which of the following is the correct optimal growth model if $dy/dl = 3$ and change in 100 million dollars?

Select the correct option



Reload Model

- | | | |
|----------------------------------|--|------|
| ☐ | There will be 300 million dollars increase in income | True |
| ☐ | There will be 300 million dollars decrease in income | |
| ☒ | There will be 100 million dollars increase in income | |
| ☐ | There will be 65 million dollars increase in income | |

Click to Save Answer & Move to Next Question



Assessment Quiz

Post-Assessment

Question # 5 of 8

Time Left: 84

The correct option for the total storage cost function from marginal cost function $S(t) = 2t - 40t^3 = 2t^2 - t^4 + c$?

Select the correct option

[Reload Math Equat](#)

True



False



correct

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 9

The integration of natural exponential function $Y = 11e^{2x}$ will be $\frac{11e^x}{1} + c$?

Select the correct option

☒	False
☐	True

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8 December 2023 7:39 pm



Assessment Quiz

Post-Assessment

Question # 1 of 8

Time Left: 83 se

The integration for the number of shops in a chain of local grocery store after t months, $dn/dt = 60t^{-1/2} = 60t^{1/2} + C$?

Select the correct option

[Reload Math Equation](#)

True



False



correct

[Click to Save Answer & Move to Next Question](#)

Assessment Quiz

Which of the following is the correct option for Domar growth model if there is increase in the investment, ceteris paribus?

Select the correct option

 Reload Math Equations



All of the given options





sment Quiz

ost-Assessment

Question # 6 of 8

Time Left: 85 sec(s)

The correct option for the number of shops in a chain of local grocery store $n(t) = 12t^{1/2} + 13$ is that arbitrary constants need not be calculated ?

Select the correct option

[Reload Math Equations](#)

True



False



correct

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 9

Time Left: 75 s

In case, we cannot apply rule of integration by substitution for product or quotient of two differentiable functions, integration by sum difference rule can be used to find the solution?

Select the correct option

Reload Math Equation

☐	False
☒	True

Click to Save Answer & Move to Next Question

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Post-Assessment

Question # 5 of 6

Time Left: 83 sec(s)

The correct option for the value of 6 in the price function of ground beef, $dP/dt = 0.05t^2 + 0.7t + 6$ = speed of price?

Select the correct option

[Reload Math Equations](#)

☒	False
☐	True

[Click to Save Answer & Move to Next Question](#)



Assessment Quiz



Which of the following is the incorrect of

$$\left(\frac{d^2y}{dt^2}\right)^3 + \left(\frac{d^3y}{dt^3}\right)^4 = 25y ?$$

Select the correct option



Reload Ma

- | | |
|----------------------------------|---|
| ☐ | It is third degree differential equation |
| ☐ | It is the fourth degree differential equation |
| ☐ | The power of the highest derivative |
| ☒ | It is second order differential equation |

Click to Save Answer & Move to Next Question

Question # 6 of 6

The integration of a revenue function $Y = 16x^2 + 3x + 12$, using sum-difference rule will be $\frac{16x^3}{3} + \frac{3x^2}{2} + 12x + c$?

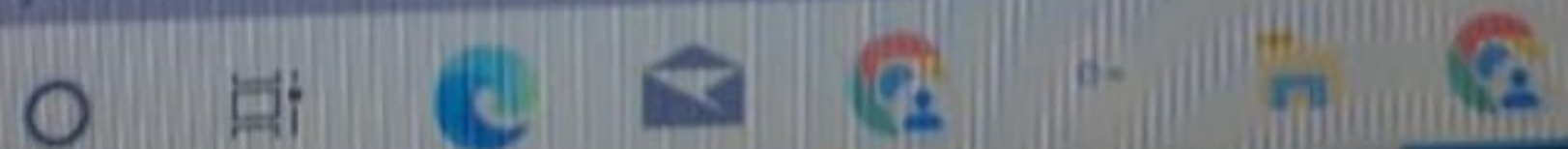
Select the correct option

☐	False
☒	True

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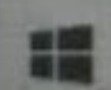


Question # 9 of 9

The integration of natural exponential function $Y = 9e^{3x} \frac{9e^{3x}}{3} + c$

Select the correct option

☐	True
☒	False



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Assessment Quiz

When the machine is x years old, the rate at which its value is changing is $20(x-10)$ dollars per year $V(x) = \int_1^3 V'(x)dx = 0$. This means that there is no depreciation in three years?

Select the correct option

 Reload Math Equations

☒ True

Post-Assessment

Question # 5 of 10

Which of the following is the correct option for the definite integral diagrammatically?

Select the correct option

- ☐ Area with low numerical values
- ☐ Area with undefined values
- ☐ Area with binary values
- ☒ Area with defined values

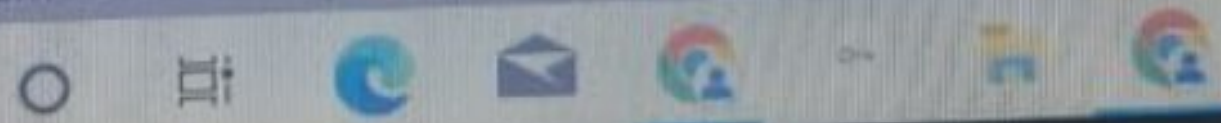
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Post-Assessment

Question # 7 of 8

Time Left: 82 sec(s)

The integration of function given if inputs has been increased from 20 to 40 units each, $Q(L,K) = K^{0.4}L^{0.6}$ then function will be integrated with respect to Q and K

Select the correct option

[Reload Math Equations](#)

☒	False
☐	True

[Click to Save Answer & Move to Next Question](#)



Post-Assessment

Question # 5 of 7

Time Left: 82 sec

The correct option for the total consumption function from the marginal propensity consumption function, $MPC = 10 + Y^{-1/2} = 10Y + Y^{1/4} + c$?

Select the correct option

[Reload Math Equations](#)

True



False



correct

[Click to Save Answer & Move to Next Question](#)

✓
Consider the following function of investment over time $I(t) = bt^{1/2} + I(0)$
which of following best expresses the term $bt^{1/2}$ in the given function?

Time path of investment

Assessment Quiz



Which of the following is the correct optimal growth model if $dy/dI = 3$ and change in 100 million dollars?

Select the correct option



Reload Model

- | | | |
|----------------------------------|--|------|
| ☐ | There will be 300 million dollars increase in income | True |
| ☐ | There will be 300 million dollars decrease in income | |
| ☒ | There will be 100 million dollars increase in income | |
| ☐ | There will be 65 million dollars increase in income | |

Click to Save Answer & Move to Next Question



Question # 5 of 5

Time Left: 87

Which of the following is the correct option for the term OQ^*EP^* in the equation geometrically, $\int_0^7 P(Q) = OQ^*EP^* + \Delta P^*EP^*$?

Select the correct option

[Reload Math Equa](#)

Consumer expenditure on seven units



Consumer expenditure on zero units



Consumer surplus on seven units



Consumer surplus on zero units

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 9

Stock and flows relationships/issues are included in the integration analysis?

Select the correct option

☒	True
☐	False

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Assessment Quiz



Post-Assessment

True

Question # 2 of 6

Time Left: 62 sec(s)

In Domar growth model if productive capacity remains fully utilized over time with solution $I(t) = I(0) e^{\rho st}$ then this means that there is inverse link amid growth of investment and ρs ?

Select the correct option



Reload Math Equations





Post-Assessment

Question # 5 of 8

Time Left: 88 sec(s)

Which of the following is not the correct option for the function $c = 23(e^{0.3Q}) + 80$?

Select the correct option

[Reload Math Equations](#)

- | | |
|-----------------------|---|
| ☐ | Function does not require further integration |
| ☐ | Arbitrary constants need not be calculated |
| ☐ | None of the given options |
| ☐ | Arbitrary constants need to be calculated |

correct

[Click to Save Answer & Move to Next Question](#)

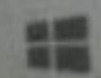
Consider the following function of investment over time

$$I(t) = 7t^{1/2} + I(0)$$

Which of the following best expresses the term $I(0)$ in the given function?

Select the correct option

- | | |
|----------------------------------|---|
| ☐ | Time path of investment |
| ☐ | Value of function if independent variable is negative |
| ☒ | Initial Investment |
| ☐ | Value of function if independent variable is positive |



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8 December 2023 6:33 pm



Assessment Quiz



Question # 3 of 6

Time

Suppose that when it is t years old, a piece of industrial machine is generating profit

$$\int_0^{10} \pi(t) dt = \int_0^{10} [(4000 - 20t^2) - (2000 - 10t)] dt = 7000$$

7000 dollars. The interpretation of this 7000 dollar in the tenth year of machine is

Select the correct option



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False

False



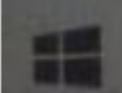
Question # 4 of 9

The integration of function $Y = x^2 + x + 12$, using sum-difference rule will be $\frac{x^3}{3} + \frac{x^2}{2} + 2x$?

Select the correct option

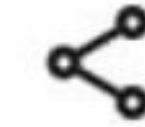
☐	True
☒	False

Galaxy A12



8 December 2023 7:38 pm





Assessment Quiz



In Domar growth model if technology of production remains constant with $\rho = \frac{k}{K} = 3$ then there will be capacity of 3 units of output from one unit of capital?

Select the correct option

True



Reload Math Equations

False



Post-Assessment

Question # 6 of 9

Power Rule can be used on the value of the independent variable is less than one?

Select the correct option

☐	False
☒	True



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Post-Assessment

Question # 3 of 6

Time Left: 81 sec(s)

The correct option for the term $L^{2/3}$ in production function $Q=12L^{2/3}$ = production frequency ?

Select the correct option

[Reload Math Equations](#)

☐	True
☒	False

[Click to Save Answer & Move to Next Question](#)



Assessment Quiz



Post-Assessment

Question # 1 of 7

Time Left: 87 sec(s)

The correct option for the integration of a marginal imports function $M(Y) = 0.9 = 0.9Y + c$?

Select the correct option

Reload Math Equations

False



True



correct

Click to Save Answer & Move to Next Question

Question # 7 of 9

In case, we cannot apply rule of integration by substitution for product or quotient of two differentiable functions, integration by parts can be used to find the solution?

Select the correct option

☒	True
☐	False

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Assessment Quiz



Question # 1 of 6

Time

After 6 months on the job, a postal clerk sorts $900 - 400e^{-0.5t}$ letters per hour. The average number of letters which the clerk sorts mail during the first 6 months of the job will be written

$$Q_{avg}(t) = \frac{1}{6-1} \int_0^6 [900 - 400e^{-0.5t}] dt ?$$

Select the correct option



Reload Material

False



True



Post-Assessment

Question # 3 of 6

The integrated value of an investment function $I(t) = 2t/(t^2 + 17) + t^3$ will be $\ln(t^2 + 17) + t^3 + c$?

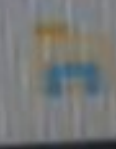
Select the correct option

☒	False
☐	True

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Post-Assessment

Question # 5 of 5

Time Left: 82 sec(s)

The correct option for the total cost function from marginal cost function $MC(Q)=3Q^2 - 6Q$ will be $3Q^3 - 6Q^2 + c$

Select the correct option

[Reload Math Equations](#)

False



True

[Click to Save Answer & Move to Next Question](#)



Question # 4 of 8

The correct integration of an oil extraction rate $dN/dt=99-4t$ will be $99t-4t^2+c$?

Select the correct option

False



correct

True



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Assessment Quiz



Post-Assessment

Question # 1 of 6

Time Left: 77 sec(s)

The correct option for the value of Π in the farmer's crop rate $dC/dt = 0.3t^2 + 0.5t + \Pi$ = variable cost?

Select the correct option

Reload Math Equations

☐	True
☒	False

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Post-Assessment

Question # 3 of 8

Time Left: 74 sec(s)

The correct option for the marginal cost term in present value formula of the wine sale maximization, $V'(t) = r(t) + s$ is that it has only variable cost?

Select the correct option

[Reload Math Equations](#)

☒	False
☐	True

[Click to Save Answer & Move to Next Question](#)



Post-Assessment

Question # 6 of 8

Time Left: 89 sec(s)

The correct option for the integration of a marginal function $MR=100Q - e^{0.5Q} = 50Q^2 - 10/5 e^{0.5Q} + c$

Select the correct option

[Reload Math Equations](#)

False



True



correct

[Click to Save Answer & Move to Next Question](#)



Post-Assessment

Question # 3 of 8

Time Left: 82 sec(s)

Which of the following is the correct option for the total cost function from the marginal cost function $MC(Q) = 7e^{0.2Q}$?

Select the correct option

[Reload Math Equations](#)

- | | |
|-----------------------|------------------------|
| ☐ | $2e^{0.2Q} + c$ |
| ☐ | $3.5(e^{0.2Q}) + 10$ |
| ☐ | $14e^{0.2Q} + c$ |
| ☐ | $7/0.02(e^{0.2Q}) + c$ |

correct

[Click to Save Answer & Move to Next Question](#)

10:54

38%



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Assessment Quiz



Post-Assessment

Question # 2 of 6

Time Left: 84 sec(s)

The correct option for the price if the value of crop, $V(t) = \$120$ in the farmer's crop rate $dC/dt = 0.4t^2 + 0.5t + 12$ and $C(t) = 30$ units in 3 months = Price = \$360 per unit?

Select the correct option

Reload Math Equations

☒	False
☐	True

Click to Save Answer & Move to Next Question

Assessment Quiz

Which of the following is the correct option for Domar growth model if there is increase in the investment, ceteris paribus?

Select the correct option

 Reload Math Equations



All of the given options



10:54

37%



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Assessment Quiz



Post-Assessment

Question # 5 of 6

Time Left: 80 sec(s)

The correct option for the term 400 in the rate of production of mobiles i.e. $dP/dt = 400(13 - t/2t)$ is that it is a variable cost?

Select the correct option

Reload Math Equations

☒	False
☐	True

Click to Save Answer & Move to Next Question

Assessment Quiz



Question # 5 of 6

Time

Which of the following is the incorrect option for the Domar growth model if there is constant population growth and constant productive capacity per worker ceteris paribus?

Select the correct option



Reload Model

True

Marginal propensity to save is constant

Question # 9 of 9

Marginalization is the other given name to the integration of a derived function?

Select the correct option

☐	False
☒	True

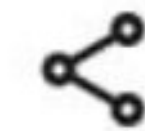
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Assessment Quiz



The correct option for differential equation is that there will be inverse relationship between the function and its derivative?

Se

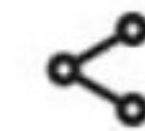
False

tion



Reload Math Equations





Assessment Quiz



In a certain community the fraction of the homes placed on the market that remain unsold for at least 1 weeks is approximately $f(t) = 20e^{-t}$. This means that there will be 8 homes in the market for sale?

Select the correct option



Reload Math Equations

True





Post-Assessment

Question # 8 of 8

Time Left: 85

The correct option for the capital accumulation function from investment function, $I=6t^{1/2}+4 = 4t^{3/2}+4t+c?$

Select the correct option

[Reload Math Equa](#)

True



correct

False

[Click to Save Answer & Move to Next Question](#)

Post-Assessment

Question # 8 of 9

The integration of exponential function $Y = 16^{3x}$ will be $\frac{16^{3x}}{3 \ln |10|} + c$?

Select the correct option

☒	True
☐	False

Click to Save



Post-Assessment

Question # 1 of 5

Time Left: 83 sec(s)

Which of the following is the geometrically social surplus (area of right triangle) if consumer surplus and producer surplus are 130 and 150 respectively?

Select the correct option

[Reload Math Equations](#)

10



280



-20



20

correct

[Click to Save Answer & Move to Next Question](#)

Assessment Quiz

In Domar growth model if technology of production remains constant with $\rho = \frac{k}{K} = 3$ then there will be capacity of 3 units of output from one unit of capital?

Select the correct option

True

Reload Math Equations

False

10:54

37%



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Assessment Quiz

**Post-Assessment**

Question # 6 of 6

Time Left: 84 sec(s)

The cost of producing Q units of a new product is in hundred dollars, varies between 13 and 19 units, and the firm's average profit is $C = \frac{1}{b-a} \int_a^b f(Q) = 160$ units. What is the interpretation of this cost value?

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|--|
| ☒ | Average cost between 13 and 19 units of output |
| ☐ | Average cost of 32 units of output |
| ☐ | Average cost of 13 units of output |
| ☐ | Average cost of 19 units of output |

[Click to Save Answer & Move to Next Question](#)

which of following is true ✓
option for the derivative of
total function?

It represent the marginal change.
which of following the correct
option for average function from
total function graphically?

All of given.

which of following is considered ✓
in dynamic analysis?

All of given options

which one of following option ✓
is the part of dynamic analysis?

All of given option.

which one of following mathematical
tool is relatively close to
real economic phenomena?

Dynamic analysis.

which of following function
investment over time $I(t) = It^{1/2} + I$

which one of following best
express the term $I(0)$ in the
given function?

Initial Investment

Question # 5 of 9

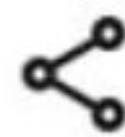
The integration of natural exponential function $Y = 11e^{2x}$ will be $\frac{11e^x}{1} + c$?

Select the correct option

☒	False
☐	True

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Assessment Quiz



Question # 8 of 8

Time

The correct option for $y' = 14y + 1$ is that it is a first degree and first order differential equation.

Select the correct option



Reload Material

False



True



Click to Save Answer & Move to Next Question

Question # 2 of 9

The integration of the function $I(t) = 6t^2$ will be equal to $2t^3 + c$?

Select the correct option

☐	True
☒	False

Click to Save Answer

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10:46

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Question # 2 of 8

Time Left: 82 seconds

The correct option for the term $R(t)$ in the present value, $PV = \int_0^t R(t)e^{-rt}e^{-rt} = \text{Interest rate?}$

Select the correct option

Reload Math Equation

False



True



Click to Save Answer & Move to Next Question



Assessment Quiz



Question # 7 of 8

Time

The correct option when $a = 0$, $b \neq 0$ in standard form of first-order differential equation $dy/dt + p(x)y = q(x)$ is that the particular solution will have non-zero values (kt)?

Select the correct option



Reload Material

True

True

10:46

40%



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Post-Assessment

Question # 5 of 8

Time Left: 83 sec(s)

The present value of perpetual income stream flowing from a cash of Rs. 1200 and discounted at 5 % per year will be = 12000 ?

Select the correct option

[Reload Math Equations](#)

True



False



[Click to Save Answer & Move to Next Question](#)

Assessment Quiz

Post-Assessment

Question # 1 of 9

The integration of exponential function $Y = 20^{2x}$ will be $\frac{20^{2x}}{12 \cdot \ln |22|} + c$?

Select the correct option

☒	False
☐	True

Click to Save Answer

Type here to search

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Post-Assessment

Question # 4 of 8

Time Left: 89 sec(s)

Which of the following is the correct option for the total cost function from the marginal cost function $MC(Q) = 10e^{0.2Q}$?

Select the correct option

[Reload Math Equations](#)

- | | |
|-----------------------|--------------------|
| ☐ | $1000e^{0.2Q} + c$ |
| ☐ | $20 e^{0.2Q} + c$ |
| ☐ | $10e^{0.2Q} + c$ |
| ☐ | $50e^{0.2Q} + c$ |
- correct

[Click to Save Answer & Move to Next Question](#)



Post-Assessment

Question # 8 of 8

Time Left: 89 sec(s)

Which of the following is the correct option for an integrated function $TR=20Q^2 - 7/3 e^{0.03Q} + c$?

Select the correct option

Reload Math Equations

☒	Calculated integral is general
☐	Calculated integral is unaffected
☐	Calculated integral is ambiguous
☐	Calculated integral is definite

correct

Click to Save Answer & Move to Next Question



Post-Assessment

Question # 6 of 7

Time Left: 86 sec

Which of the following is not the correct option for the function $C(Y) = 3Y + 9Y^{1/2} + 1/2$?

Select the correct option

[Reload Math Equations](#)

Arbitrary constants need to be calculated



Arbitrary constants need not be calculated



None of the given options



Function does not require further integration

correct

[Click to Save Answer & Move to Next Question](#)

Assessment Quiz

Post-Assessment

Question #1 of 9

Derivative over function rule states that if integrand is a derivative-primitive ratio, then the integration is the natural logarithm of the primitive?

Select the correct option

☒	True
☐	False

Click to Save Answer & Move to

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Which one of the following option(s) is the part of dynamic analysis?

Select the correct option

- | | |
|----------------------------------|------------------------------------|
| ☐ | Increase of onion prices |
| ☐ | Increase in unemployment |
| ☐ | Decline in wheat production growth |
| ☒ | All of the given options |

Assalam alikum sir 1st lecture e snow no ma na in daily watch kiti na ims next lecture ni snow no my please help me

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Assessment Quiz



Question # 5 of 8

Time

The incorrect option when $b=0$ in standard first-order differential equation $dy/dt +$ it is a homogeneous case of differential

Select the correct option



Reload Module

True



True

Click to Save Answer & Move to Next



Question # 5 of 5

Time Left: 87

Which of the following is the correct option for the term OQ^*EP^* in the equation geometrically, $\int_0^7 P(Q) = OQ^*EP^* + \Delta P^*EP^*$?

Select the correct option

[Reload Math Equa](#)☐

Consumer expenditure on seven units

correct

☐

Consumer expenditure on zero units

☐

Consumer surplus on seven units

☐

Consumer surplus on zero units

[Click to Save Answer & Move to Next Question](#)

10:46

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Post-Assessment

Question # 4 of 8

Time Left: 81 sec(s)

The integration of function given if inputs has been increased from 20 to 40 units each, $Q(L,K) = K^{0.4}L^{0.6}$ then function will be integrated with respect to Q and K

Select the correct option

[Reload Math Equations](#)

True



False



[Click to Save Answer & Move to Next Question](#)

The marginal labor cost function is given by the equation $MLC = 7 + 5L$.

Successive labor cost of employing 1 to 4 units of labor is found using the definite integral is 64

This means that marginal cost of hiring one labor is 64.

False

Post-Assessment

Question # 7 of 9

Which of the following is the integrated value of the function $y = 2x$ will be $x^2 + c$?

Select the correct option

☐	False
☒	True

Click

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Question # 1 of 10

Which of the following is the correct method for calculating a definite integral?

Select the correct option

- | | |
|----------------------------------|---|
| ☒ | Both calculus based and Riemann sum methods |
| ☐ | Calculus based method only |
| ☐ | Riemann Sum method only |
| ☐ | Statistical method |

sir topic number ki 3 example ma +2x na magar ap na a gay ja ka _ sign use kiya na kasay kindly help me.

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Post-Assessment

Question # 4 of 5

Time Left: 89 sec(s)

The incorrect option for the terms in the equation geometrically, $\int_0^n P(Q) = OQ^*EP^* + \Delta P^*EP = \text{producer surplus?}$

Select the correct option

[Reload Math Equations](#)

False



True

correct

[Click to Save Answer & Move to Next Question](#)

**The correct option for
 $d^2y/dt^2 + (dy/dt)^2 + 5x^2$
 $=0$ is that it is the second
degree differential
equation ?**

False

Question # 1 of 6

Which of the following is the correct option for the integration of exponential demand function $F(x) = 160^{3x}$?

Select the correct option

☐ $\frac{160^{3x}}{16 \cdot \ln |3|} + c$

☒ $\frac{160^{3x}}{3 \cdot \ln |160|} + c$

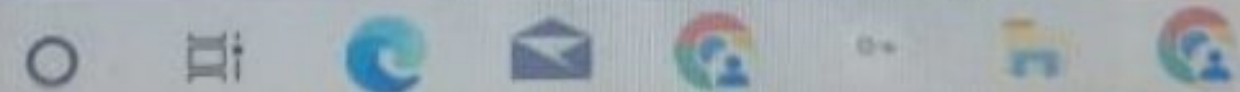
☐ $\frac{160^{3x}}{6 \cdot \ln |16|} + c$

☐ $\frac{16^{3x}}{\ln |6|} + c$

Click to S

dear sir , topic nu 12 ki numerical example ka answer -705 a rana na (show ne negative relationship between the price and demand) na magar ap

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Post-Assessment

Question # 7 of 8

Time Left: 88 sec(s)

Which of the following is the correct option for an integrated function $TR=20Q^2 - 50/3 e^{0.03Q} + 50/3$?

Select the correct option

[Reload Math Equations](#)

☐	Calculated integral is unaffected
☐	Calculated integral is general
☐	Calculated integral is definite
☐	Calculated integral is ambiguous

correct

[Click to Save Answer & Move to Next Question](#)



Post-Assessment

Question # 6 of 6

Time Left: 84 sec(s)

The correct option for the production function $Q=20L^{2/3}$ if the labor input has been increased from 1 to 10 units and output/product =24 is average product of labor is 24 from 1 to 100 units of labor ?

Select the correct option

[Reload Math Equations](#)

☐	False
☒	True

[Click to Save Answer & Move to Next Question](#)

Assessment Quiz



Post-Assessment

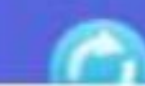
True

Question # 2 of 6

Time Left: 62 sec(s)

In Domar growth model if productive capacity remains fully utilized over time with solution $I(t) = I(0) e^{\rho st}$ then this means that there is inverse link amid growth of investment and ρs ?

Select the correct option



Reload Math Equations



The correct option for the monthly sale

$$S_{avg}(t) = \frac{1}{8} \int_0^8 \left[\frac{750t}{\sqrt{4t^2 + 25}} \right] dt$$

if a new product introduced will be marginal sale of new months 1220 thousand dollar?

Select the correct option



Reload M



False



Question # 3 of 8

The correct integration of an oil extraction rate $dN/dt = t^2 - 4t^3$ will be $1/3t^3 - t^4 + c$?

Select the correct option

True



correct

False



Click to Save Answer & Mark

10:54

37%



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Assessment Quiz

**Post-Assessment**

Question # 3 of 6

Time Left: 84 sec(s)

Firm's profit function and the level of output (Q), varies between 1 and 7 units, and the firm's average profit is

$$\pi = \frac{1}{b-a} \int_a^b f(Q) = 133 \text{ units. What is the interpretation of this profit value?}$$

Select the correct option

[Reload Math Equations](#)

Average profit of 7 units of output



Average profit between 1 and 7 units of output



Average profit of 9 units of output



Average profit of 1 unit of output

[Click to Save Answer & Move to Next Question](#)

Assessment Quiz

Post-Assessment

Question # 1 of 9

The integration of exponential function $Y = 20^{2x}$ will be $\frac{20^{2x}}{12 \cdot \ln |22|} + c$?

Select the correct option

☒	False
☐	True

Click to Save Answer

Type here to search

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Question # 4 of 9

The integration of function $Y = x^2 + x + 12$, using sum-difference rule will be $\frac{x^3}{3} + \frac{x^2}{2} + 2x$?

Select the correct option

☐	True
☒	False

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10:47

40%



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Post-Assessment

Question # 6 of 8

Time Left: 86 sec(s)

The formula of present value of revenue in constant cash flow of Rs. 4000 over 3 year with 6% discount rate will be $4000/0.06 (1 - e^{-0.06(3)})$?

Select the correct option

[Reload Math Equations](#)

☐	False
☒	True

[Click to Save Answer & Move to Next Question](#)



Post-Assessment

Question # 2 of 7

Time Left: 87 sec(s)

Which of the following is the correct option for the total function from marginal profit function $MP=33-4q=33q-q^2+c$

Select the correct option

[Reload Math Equations](#)☐ True☐ False

correct

[Click to Save Answer & Move to Next Question](#)

Assessment Quiz

The marginal labor cost function is given by the equation $MLC = 4 + 9L$. This means that marginal cost of zero labor is 4?

Select the correct option

 Reload Math Equations

☐ True



Assessment Quiz



Post-Assessment

Question # 4 of 6

Time

The correct option for the term 'x' in the

formula, $GI = 2 \int_0^1 [x - L(x)] dx = \text{per}$

Select the correct option



Reload M

False



True



Assessment Quiz

True

Question # 3 of 6

Time Left: 51 sec(s)

Which of the following is the correct option for the marginal labor cost function is given by the equation $MLC = 3 + 7L$. This means that the marginal cost of hiring one labor is 10?

Select the correct option

 Reload Math Equations

Question # 8 of 10

In the improper integrals element of undefined answers can be attributed to the;

Select the correct option

- | | |
|----------------------------------|------------------------------------|
| ☐ | Infinite integrand |
| ☒ | Both infinite limits and integrand |
| ☐ | None of the given options |
| ☐ | Infinite limits |

Click to

sir topic number ki example ma +2x na magar ap na a gay ja ka _ sign use kiya na kasay kindly help me



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8 December 2023 8:02 pm

Question # 4 of 9

Integrand is the name of the function to be integrated?

Select the correct option

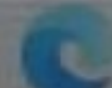
☒	True
☐	False

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Post-Assessment

Question # 3 of 5

Time Left: 87 sec(s)

The correct differential of consumer surplus for two consumer in monopoly market if person A and person B have paid 130 and 150 for one unit while they were willing to pay 130 and 160 respectively = 20?

Select the correct option

[Reload Math Equations](#)

True



False



correct

[Click to Save Answer & Move to Next Question](#)