

Question: The difference between the definite and the indefinite integral is that, \_\_\_\_

Answer: definite integral has limits

Question: Using one of the rules of integration, an evaluation of  is \_\_\_\_

Answer:  $[-3e^{13x} + C]$

Answer:  $-3e^{13x} + C$

Answer:  $-3e^{(13x)} + C$

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Question: If demand function is  $p=40-8q$ , the marginal revenue (MR) of the function will be \_\_\_\_

Answer:  $[40-8q]$

Answer:  $40-8q$

Answer:  $40 - 8q$

Question: When an equation is first partially differentiated w.r.t a variable, and then partially differentiated w.r.t another variable, this case is known as \_\_\_\_\_

Answer: Crossed partial derivative

Question: When a constraint renders the 'substitution method' useless, \_\_\_\_\_ becomes effective

Answer: Lagrange multiplier method

Question: An evaluation of the marginal expenditure of  $p = Q^{\sup{3}} + 4Q + 3$  equals to \_\_\_\_\_

Answer:  $\backslash[4Q^{\{3\}} + 8Q + 3\backslash]$

Answer:  $4Q^{\{3\}} + 8Q + 3$

Answer:  $4Q^{\{3\}} + 8Q + 3$

Answer:  $4Q^{\{3\}} + 8Q + 3$

Question: The marginal propensity to consume (MPC) of the equation  $C = 1000 + 0.88y$  is \_\_\_\_\_

Answer:  $\backslash[0.88\backslash]$

Answer: 0.88

Question: If the average propensity to save of a household is half, the average propensity to consume is \_\_\_\_\_

Answer:  $\frac{1}{2}$

Answer: Half

Question: If MPC is 0.6, and consumption is 85, the consumption function 'C' is \_\_\_\_\_

Answer:  $\backslash[0.6y + 85\backslash]$

Answer:  $0.6y + 85$

Answer:  $0.6y + 85$

Question: The difference between the definite and the indefinite integral is that, \_\_\_\_\_

Answer: definite integral has limits

Question: Study the function  $F(x, y, \lambda) = f(x, y) + \lambda[k = h(x, y)]$  carefully:  $F(x, y, \lambda)$  is the \_\_\_\_\_

Answer: Lagrange function

Question:  $f(x, y)$  in the function  $F(x, y, \lambda) = f(x, y) + \lambda[k = h(x, y)]$  is the \_\_\_\_\_

Answer: Objective function

Question: In the function  $F(x, y, \lambda) = f(x, y) + \lambda[k = h(x, y)]$ ,  $\lambda[k = h(x, y)]$  is the \_\_\_\_\_

Answer: Constraint function

Question: If  $g = 4w^3 + 10wxy^3 - y^2 + x^4$ . With respect to 'x', the partial derivative of this function is \_\_\_\_\_

Answer:  $10wy^3 + 4x^3$

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Question: If  $g = 4w^3 + 10wxy^3 - y^2 + x^4$ , the partial derivative of the function with respect to 'w' is \_\_\_\_\_

Answer:  $12w + 10xy^3$

Answer:  $12w + 10xy^3$

Answer:  $12w + 10xy^3$

Question: If  $g = 4w^3 + 10wxy^3 - y^2 + x^4$ , with respect to 'y', the partial derivative is \_\_\_\_\_

Answer:  $30wxy^2 - 2y$

Answer:  $30wxy^2 - 2y$

Question: When the substitution method becomes useless as a result constraint, \_\_\_\_\_ becomes effective.

Answer: Lagrange multiplier

Question: In matrix operation, any matrix of 2 by 3 order means \_\_\_\_\_

Answer: 2 rows and 3 columns

Answer: Two rows and three columns

Answer: 2 rows, 3 columns

Question: When the second derivative of any function equals zero, the \_\_\_\_\_ occurs

Answer: inflection point

Answer: point of inflection

Question: The first among the rules of differentiation is the \_\_\_\_\_

Answer: Constant rule

Answer: Constant



Question: Use Lagrange multiplier to optimize  $\langle \text{img src="@@PLUGINFILE@@/Picture1.png" alt=""/> subject to  $x + y = 36$ . Therefore,  $\langle \text{img src="@@PLUGINFILE@@/Picture2.png" alt=""/> The value of 'y' is _____$$

Answer: 15



Question: Use Lagrange multiplier to optimize  $\langle \text{img src="@@PLUGINFILE@@/Picture3.png" alt=""/> subject to  $x + y = 36$ . Therefore,  $\langle \text{img src="@@PLUGINFILE@@/Picture4.png" alt=""/> The value of x in the equation$$

is \_\_\_\_\_

Answer: 21

Question: Use Lagrange multiplier to optimize  subject to  $x + y = 36$ . Therefore,  The estimated value of  $\lambda$  in the equation is \_\_\_\_\_

Answer: 276

Question: Use Lagrange multiplier to optimize  subject to  $x + y = 36$ . Therefore,  The value of  $q$  in the equation given is \_\_\_\_\_

Answer: 5,244

Question: The Marginal Revenue (MR) of the function  $Q = 46 - 2p$  is \_\_\_\_\_

Answer:  $23 - Q$

Answer:  $23 - Q$

Question: Using  $23 - Q$ , if  $Q = 6$ , then MR is \_\_\_\_\_

Answer: #17

Answer: N17

Question: Total Revenue (TR) value of the function  $Q = 46 - 2p$  is \_\_\_\_\_, if  $Q$  is 7..

Answer: #136.5

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Question: From the consumption function  $C = 2500 + 0.75Y_d$ , the Marginal Propensity to Consume (MPC) is \_\_\_\_\_

Answer: 0.75

Question: The Marginal Propensity to Save (MPS) is \_\_\_\_\_ given the consumption function  $C = 2500 + 0.75Y_d$ .


Answer: 0.25

Question: The value of the consumer expenditure using the function  $C = 2500 + 0.75Y_d$  is \_\_\_\_\_, if disposable income is #2500.

Answer: #4375

Answer: #4,375

Answer: #4,357.00

Question: Given the Average Cost function , the Marginal Cost (MC) is \_\_\_\_\_

Answer:  $5Q + 6$

Answer:  $5Q + 6$

Question: Using  $5Q + 6$ , if  $Q$  is 4, MC value will be \_\_\_\_\_

Answer: #26

Answer: #26.00

Answer: Twenty-six naira

Question: The value of Total Cost (TC) using the function  $TC = 220.50 + 70Q + 45Q^2 - 10Q^3$  is \_\_\_\_\_, if Q equals 7.

Answer: #220.50

Answer: #220.5

Answer: N220.5

Question: If  $MC = 70 + 90Q - 30Q^2$ , and fixed cost is 100. The TC equation from the MC function is \_\_\_\_\_

Answer:  $70Q + 45Q^2 - 10Q^3 + 100$

Answer:  $70Q + 45Q^2 - 10Q^3 + 100$

Answer:  $70Q + 45Q^2 - 10Q^3 + 100$

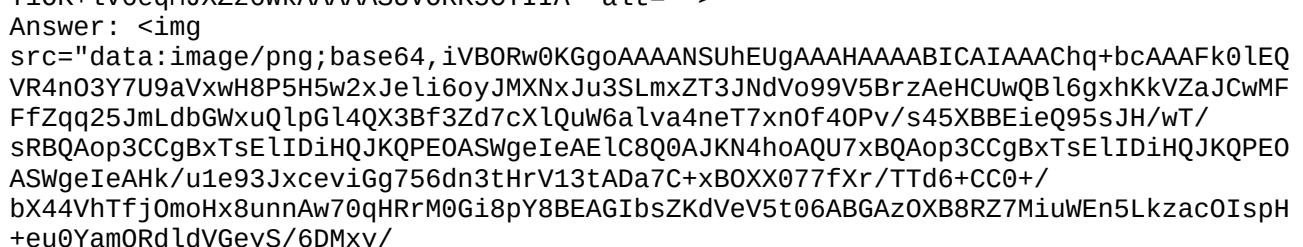
Question: The value of TC is X in absolute term when Q is 5. What is X?

Answer: #325

Answer: #325.00

Question: Identify the generalized power function rule in differentiation if



Answer: 

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Answer: 

Question: Differentiate the 

of 

Answer: >

Question: Use one of the rules of differentiation to solve the equation >

Answer: >

Answer: >

Answer: >

Answer: >

Answer: >

Answer:   
Answer: -24x

Question: The concept of Derivative is about \_\_\_\_  
Answer: Rate of change

Question: If   
Answer: -24x

Question: Differentiation is a primitive function in calculus  
Answer: FALSE

Question: What President Obama did by tracing his origin to Kenya can be likened to \_\_\_\_ in calculus  
Answer: Integration

Question: The concept of Integration is about  
Answer: area under the curve

Question:   
Answer: -24x

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Answer: 

Question: Use constant rule of integration, evaluate <img  
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Answer: 

Question: Compute the integral function   
Answer: 165

Question: Determine the under the curve of the function   
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Answer: 100

Question: If  $\langle \text{img} \text{ src="data:image/png;base64,iVBORw0KGgoAAAANSUHEUGAAAKcAAAAYCAIAAAC231xLAAAGWELEQVR4n02a208aWRJA+x+dF2I1ISF2NyZqtK3XrN20iU22pxmD01U824EBL1SYLRKoolQ7ARriBS+ry1IpIly0K+rSLe221arBnYb0gWyID/DE4z4MW0iqDCy30JP8XkZnnG/078z3feeMl5hEUoBvXKp4BALr7D0RwTrfESwzkcE63xESM5HB0t8RLD0RwTrfOTCWI+ /cNI3HxivSkmxamIXvVf4qpqLYj3oa06mJ8NJJuxqw5CIWvqz4iFVMRfEus90AUh8N7nPJJKjWgTg80NPly+qarkg1pl3XpXRaliPMok4rUMAMwztVTqkKuaiWD8h7GrDCInRG6x4JKUnGNh69vdx+vD4ZWDLFeZ0YTVaD645bsuUYlmfUB3VE0bhWDHXA2NH4zplw0OXuxTDXCzqWbJ9264dCJ51zr6hnnwA6z0G5BsqiRwCiGrzvixqPIiUAbqY/xLlcWH3Wg45mq05wHzKJVGSG4DkDnUnEou9vGL0NxKLu54GNIoYUwrgl6xXjyloMAahR75x+mn9KL4KoCNZje70re1z+iEWPRBgBIBJJ1TdG3Z4IJ+VMFVpftmkBREBKTYaST0LNgBwBiJptb3JdGJkb018zeZZ2w7+ /WmzDLdPFj40N5gzrbxdaMQSKYj3oaL4/5eZwpkWPGq2hAm5RddaZsP+B8QmaebmbSDKJbUUXApC448yR5DdnDCKIwAk98/7ix3a09X1Dv7zNbG28uNaPfYv0dZnmhvbhV4R10PZI0v10rjs7IkHnSB1ENarZVJ00e+8htQSN426bRPMFoXxBkFKNAslqeKncKZ1/5S+RusM7Dias6xHLEPqhK5LDWEdX5rHeqib/ZrazkeGnVx50B/rDabfxm1w3PhENbnuis5bKetxto0QYpQ4cM+lsLNJ5dr847fDZXVnflRyMPj4880Z0xxNcS9Viqhbat5F+mGkt2WJ/bx9SAIjEek8gImQirjaI6se2K2n97UIrPjL+Ic4Es62vW0p6Zlfd9GWI0n1WdFSLQJd9sXjWAT48HPi0Gzsa15EAN1tK0cmFrFJEENUZV1nNm1N6ANHNmUhpRjkecJrFkJDoXC9iSSax1aswUDtvKBIBaBpPTQUvBhGQ05YrZn3f0K+8s3h0wNrKsL5AU9/bQ8t2CkD0w+LxZ085m1P01jf8z6dfpwvfiqU0osvGVS71JS/r0TGKyKiycYueAFCrzpmYcids6Ec8220uNoyy/a6vT6fKr5AU+dnoG/orbysL9spsc4diKVtfVnX2Y1C3eBb9pBtU040WT4+1mWH0UmKoFychdjdXz7meDr27qkuuJjW12UDCEDjcdJjsKu4RT3unrPiRutIeiaxS1JwMvdXLHUQNVtD7MiyYebrse2yLJH/a93XgSGRtDfDFgIYKZH1IU/GEMmnUp3H3kIrRKDBnuPJEmd3PTh7DUMicnY50zocoTnoyMu6rwnD4P6EK2Nqn1LUExzzrusl0yqaprwnDACKR3nuQSKa2VzNqituqAZD8cZmdE/uDPQhg+sFQ6ZLN+dazcZm/XLntTDVCDVdfkZ3/in9ABSLR0vM8xRzlaX7Fktbr5pL38M/y9p30JJBMLUS05gKhlyr+oIxufNiLb58jYX3EmkTwIzbdiCGDUQ0rVZx0+osMdZxLJoMsshkrMeVSuvbC8rbOpKFVrw14MTzehRbEe21Z0a4m1CJNgNyVJK06yi2s9efBh9SeSLkj0LehhQxcCUNMbKPZ7FjuamTBfx8nazt7adrKBcky9Sz9JzIthCHRRruKaW1pKgoYHvIenZJris4Z0EjhEoF155XM0/3yCREoAiACUi10/ZfsedR0pbBoYutqpvm1b3+Cyu0LczTHhzQGqX4z3SaSkWEWP/xHl+AIUvEuzrehCoIOeLOf/L6zb6yGqN2+WbaP7/7Gt6Cqo7+FuvVAKtc42Jg+c5fy05cteBVU7odlrEIGf3Xlno8i61uYv6cAWaH3X0SKCqJF+WcbXjL0FnV1Wq4zX80MAFrhjWmoKsL6GMltx6ld/GQL9tIxn3FTqjFZ84M7lH4sxY4gMnteVDymL6vv6ILb6B0t8RLD0RwTrfESwzkcE63xESM5HB0t8RLD0RwTrfESwzkcE63xESM5HB0t8RLD0RwTrfESwzkcE63xESM5H/gU2Xx8o8GmTVwAAAABJRU5ErkJggA=" alt=">, where  $\langle b \rangle = 4 \langle b \rangle$ , solve the equation to determine the functional form of the equation.$

Answer: Increasing

Question: Solve to identify the nature of the function  $\langle \text{img} \text{ src="data:image/png;base64,iVBORw0KGgoAAAANSUHEUGAAAMsAAAAATCAIAAACPhAj7AAAHQELEQVR4n02a308a2R7A9z+aF2IwISG1jVnbbJvWXLvZe+PdtKcZg7gse9rhVylU0uswqQsWVLjoDUWku1bKzt1ZRW8rewXXxVxo2usqG7zTkH3ggfgw88TjPiAt/qD0ICPSPcnnBQNzvjPnc77ne77jR5xQRiDk460WR4D4sEGGIEQFGYaQF2QYQL6QYQh5QYYh5AUZhpAXZBhCXpBhCHlpP8PSL0J/NY7eokZUA7YhptDyeDihzOWTw1+PfmazKTV2/0l26+M5S7SdYqn9IOxwfJ8UeD8FMXwy2PqQigHa3hfK5AQ+OmHHgN2y2vKQzhBtZ9hLyn6vh3y2WDFs0D3+a8tDwh7Eiab5xxOhzCWC5wC84Eu30qQzRNsZViXp90NEtyeRbXkkQjEantL64j8JZW493A0gyrPa6pDOEG1p2EisZBx1qgdp6pfdlgtAX+dsGMDfLn0tzqSM0RbGLZhJURhwHz730285s/GL6HK4tG0+mqx/pAX8/PNV0iSdsSyKMPHo7Qz0+3u1prVeqtK/83DUzKYTT7GPxvtxRPrCobFF97DLxUau026G5Vduw0aGmG10KH0MFw0wcyzRtIsXmH4AsQPgpD11fKbMrUeu6b9xpna516nQeLHEcAVmaSMTJqpS5qHdjBn+ObvFc+lnf9MR2N25FfkfdZadVJvC0QLPCXwq5LUBiBnCbenyddrNsKVAJzBche9kqznsxjNRCUYUieC5+9HU24dYygybzDej07njfpjLmp8To9SL7dXNfNhr7wuLCSmOg0d+ER02GCQVwDTI7nJCmUuGP8ZhB/mDKDVP RP6hDWLAhD0V1fJy2AAxAG/GJKfPdJm2GVC7m7ovEU5u3UjeCjZxGf9mvF9GsXUfeKfjJlV9ELqeAlwb2tr057pi0Ux0yDSsIR+EGK$

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when  $x = 4$ , and describe the state of the function.  
Answer: Stationary

Question: When the first derivative of an economic model is zero or undefined,  
the model is therefore \_\_\_\_  
Answer: Critical

Question: In an economic equation where a single variable impact the endogenous  
variable is called \_\_\_\_  
Answer: a parameter function

Question: Find the partial derivative of the function,   
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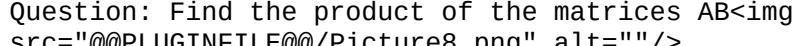
Question: Determine the second derivative of function, <img<br>src="data:image/png;base64,iVBORw0KGgoAAAANSUHEUGAAAJQAAAA9CAIAAADETdelAAAFWELEQ<br>VR4n02Z3U9aZxjA+x+9N6Rq4s22xoSaaUGTwztTjb4Jy8QivghFQZiAIkFRcNUzsGPMd7CioSWgpeImX<br>Q2mYGyxngVzFpILZig98Fydy12gGZ+uA0Re8ya/<br>m3P0y3M+fnn085yHwWzLETDl1rVfAaFkiDyMIfiWhsjDGCIPY4g8jChyMIbIwxgiD20IPIwh8jCGyMOY<br>+nyvPjvn7lIZuy3zn4Lg0kMw56rNrGwvXsUTu2m0T+lioVJHlNlwb8zep9cKrKFI3lGrSX9PN/<br>+NVF4/4vKliLwKcDyHRI0z0zTL0d5ZHpyyMFkLBEYE4L/wpM6NIqFCTgMQ2ZZSHJPaFAPRh/<br>uvzKPhRSMQquRBjtLb5EPU6nhP5JVN1NUKUdtigME5JrLcDFH7yp8ZCw5GFUBTicewHJPYFMpMpr2zIq<br>He6xUIqnfc6V/<br>JEdCs72UsiPl+5EvG5VunaXl35iNEXtn45njZ8rIf64kneBhn0YZN2oza9pWD4qFe9Qqz5Q38XChHzzx<br>PNUBkMkeqd483V553FmTLa5jZyV8W8842KlyBy0JtCmG2vF7bUs6aP34zzS90y+RNM6/

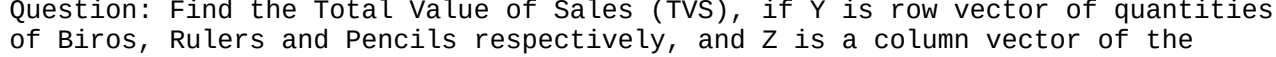
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Answer: 

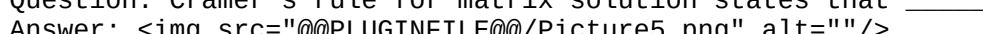
Question: A column matrix is also known as \_\_\_\_ matrix

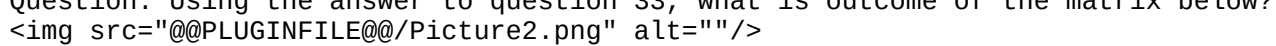
Answer: m by 1<br>

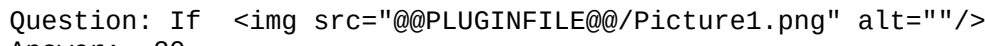
Question: The transpose of matrix  is transformed to give matrix dimension \_\_\_\_  
 Answer: 3 by m

Question: Find the product of the matrices AB  
  
 Answer: 65

Question: Find the Total Value of Sales (TVS), if Y is row vector of quantities of Biro's, Rulers and Pencils respectively, and Z is a column vector of the corresponding prices of the goods.  
  
 Answer: #52.29

Question: Cramer's rule for matrix solution states that \_\_\_\_  
  
 Answer:  $\frac{1}{|A|} \begin{vmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{vmatrix}$

Question: Using the answer to question 33, what is outcome of the matrix below?  
  
 Answer: -10

Question: If  $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$  and  $B = \begin{bmatrix} 4 & 3 \\ 2 & 1 \end{bmatrix}$ , find the value of  $|A+B|$   
  
 Answer: -20