

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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TEAM HADI(VU LAHORE)

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Best of luck!



If $y = 5x + bx - c$, then its derivative w.r. t x is.....

Select the correct option

☒	5+b
☐	5+b-c

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Question # 17 of 30 (Start time: 07:32:57 PM, 30 December 2020)

Total Marks: 1

The slope of the horizontal line is _____.

Select the correct option

☒	Zero	1/1
☐	Greater than zero	1/1
☐	Undefined	
☐	Less than zero	

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Question # 13 of 30 (Start time: 06:48:56 PM, 30 December 2020)

Total Mark

Graph of $y=f(x)$ and $y=-f(x)$ are reflection of one another about the

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Select the correct option

x-axis



y-axis

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Question # 5 of 30 (Start time: 06:45:35 PM, 30 December 2020)

Total Marks: 1

What is the derivative of

$$39x^{\frac{14}{13}}$$

Select the correct option

[Reload Math Equations](#)☐

$$42x^{\frac{1}{13}}$$

☐

$$24x^{-\frac{1}{13}}$$

☐

$$42x$$

☒

None of these

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Question # 5 of 30 (Start time: 06:45:35 PM, 30 December 2020)

Total Marks: 1

What is the derivative of

$$39x^{\frac{14}{13}}$$

Select the correct option

[Reload Math Equations](#)☐

$$42x^{\frac{1}{13}}$$

☐

$$24x^{-\frac{1}{13}}$$

☐

$$42x$$

☒

None of these

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If $f(x) = ax + bx + c$, then its derivative with respect to x is

Select the correct option

☒

$a + b$

☐

$b + c$

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Reload Math Equation

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Question # 25 of 30 (Start time: 06:54:24 PM, 30 December 2020)

Total Marks: 1

Is the graph of equation
 $y = 4x + 3$
symmetric about y-axis?

Select the correct option

Yes



No

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Question # 25 of 30 (Start time: 06:54:24 PM, 30 December 2020)

Total Marks: 1

Is the graph of equation
 $y = 4x + 3$
symmetric about y-axis?

Select the correct option

Yes



No

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Question # 22 of 30 (Start time: 08:21:42 PM, 30 December 2020)

Total Marks

Increasing function on an interval means that as we move from left to right in the x-direction, the y-values _____ in magnitude.

Select the correct option

- | | |
|----------------------------------|--------------|
| ☐ | Constant |
| ☐ | Decrease |
| ☒ | Increase |
| ☐ | Remains same |

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What is the derivative of

$7x^3$

Select the correct option

[Reload Math Equations](#)

☐	$7x^4$
☐	$21x^3$
☒	$21x^2$
☐	None of these

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What is the derivative of

$7x^3$

Select the correct option

[Reload Math Equations](#)

☐	$7x^4$
☐	$21x^3$
☒	$21x^2$
☐	None of these

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Question # 12 of 30 (Start time: 07:30:39 PM, 30 December 2020)

Total Marks: 1

Derivative exists only at the points where limit _____.

Select the correct option

☐	Does not exist	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL:03087122922 TEAM HADI(VU LAHORE)
☒	Exist	
☐	May or may not exist	
☐	None of these	

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Question # 9 of 30 (Start time: 07:09:49 PM, 30 December 2020)

Total Marks: 1

The derivative of a variable with respect to itself is equal to

Select the correct option

☐	0	
☒	1	
☐	8	
☐	2	

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Question # 15 of 30 (Start time: 07:13:17 PM, 30 December 2020)

Total Marks:

$$\frac{d}{dx} x^{-100} = \underline{\hspace{2cm}},$$

Select the correct option

☐

$-100x^{99}$

☐

$100x^{-99}$

☐

$-100x^{101}$

☒

$-100x^{-101}$

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Question # 23 of 30 (Start time: 07:17:26 PM, 30 December 2020)

Total Marks: 1

 $d/dx (\cos x) =$ _____

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Select the correct option

☐	$\sin x$	
☒	$-\sin x$	
☐	$\tan x$	
☐	$-\sec x$	

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Question # 19 of 30 (Start time: 07:15:12 PM, 30 December 2020)

Total Marks: 1

What is the derivative of

$$2x^2 + 3x$$

Select the correct option

[Reload Math Equations](#)

☐	$4x^2 + 3$
☒	$4x+3$
☐	$4x + 3x^2$
☐	None of these

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Question # 21 of 30 (Start time: 07:35:01 PM, 30 December 2020)

Total Marks: 1

"a" is included in the interval $(a, b]$

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Select the correct option

True



False



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Question # 29 of 30 (Start time: 07:37:04 PM, 30 December 2020)

Total Marks: 1

Derivative of

$$3x^7 + 4x^2 + 9$$

is

Select the correct option

[Reload Math Equations](#)

☒	$21x^6 + 8x$
☐	$21x^6 + 8x + 9$
☐	$21x^6 + 4x^2 + 9$
☐	None of these

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Question # 1 of 30 (Start time: 06:42:42 PM, 30 December 2020)

Total Marks: 1

"a" is included in the interval (a, b]

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Select the correct option

True



False



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Which of the followings is derivative of $f(x) = 4x^3$?

Select the correct option

 Reload Math Equations



$$f'(x) = 12x$$



$$f'(x) = 12x^2$$



$$f'(x) = x^4$$



$$f'(x) = 12x^3$$

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Question # 4 of 30 (Start time: 06:44:29 PM, 30 December 2020)

Total Marks: 1

Which of the followings is derivative of $f(x) = 4x^3$?

Select the correct option

☐

$$f'(x) = 12x$$

☐

$$f'(x) = 12x^2$$

☐

$$f'(x) = x^4$$

☐

$$f'(x) = 12x^3$$

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TEAM HADI(VU LAHORE)[Reload Math Equations](#)**MADE BY HADI**

If $y = 5x + bx - c$, then its derivative w.r. t x is.....

Select the correct option

☒	5+b
☐	5+b-c

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