VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future
CORRECT ANSWER SOLVED BY HADI
EMAIL:hadirajputofficial@gmail.com
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

We Deal All Kind of VU Project
(PHP, .NET,ANDROID,PYTHON)

MADE AND SOLVED BY HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.

WhatsApp:03087122922

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Best of luck!

PAST PAPER

MTH101:Grand Quiz

Quiz Start Time: 08:14 PM, 30 December 2020

Question # 14 of 30 (Start time: 08:19:10 PM, 30 December 2020)

Total Marks: 1

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

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Select the correct option

- (●) 5+b
- ( ) 5+b-c

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MTH101:Grand Quiz

Quiz Start Time: 07:27 PM, 30 December 2020

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
- ( ) Greater than zero
- ( ) Undefined
- ( ) Less than zero

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MTH101:Grand Quiz

Quiz Start Time: 06:42 PM, 30 December 20

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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MTH101:Grand Quiz

Quiz Start Time: 06:42 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 06:42 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 07:05 PM, 30 December 2

Question # 22 of 30 (Start time: 07:17:01 PM, 30 December 2020)

Total Mark

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

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Select the correct option

Reload Math Equatio

- $a + b$
- $b + c$

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MTH101:Grand Quiz

Quiz Start Time: 06:42 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 06:42 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 08:14 PM, 30 December

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

Total Ma

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

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Select the correct option

- Constant
- Decrease
- Increase
- Remains same

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Question # 20 of 30 (Start time: 08:21:07 PM, 30 December 2020) **Total Marks:** 1

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 # 20 of 30 (Start time: 08:21:07 PM, 30 December 2020) **Total Marks:** 1

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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MTH101:Grand Quiz

Quiz Start Time: 07:27 PM, 30 December 2020

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

Total Marks: 1

Derivative exists only at the points where limit_____.

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Select the correct option

- Does not exist
- Exist
- May or may not exist
- None of these

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MTH101:Grand Quiz

Quiz Start Time: 07:05 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 07:05 PM, 30 December 2020

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

Total Marks:

$\frac{d}{dx}x^{-100} =$ _____.

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Select the correct option

- $-100x^{99}$
- $100x^{-99}$
- $-100x^{101}$
- $-100x^{-101}$

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MTH101:Grand Quiz

Quiz Start Time: 07:05 PM, 30 December 2020

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

Total Marks: 1

d/dx (cosx) = _____

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Select the correct option

- sinx
- -sinx
- tanx
- -secx

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MTH101:Grand Quiz

Quiz Start Time: 07:05 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 07:27 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 07:27 PM, 30 December 2020

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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MTH101:Grand Quiz

Quiz Start Time: 06:42 PM, 30 December 2020

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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Quiz Start Time: 06:42 PM, 30 December 2020

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

Reload Math Equations

- $f'(x) = 12x$
- $f'(x) = 12x^2$
- $f'(x) = x^4$
- $f'(x) = 12x^3$

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MTH101:Grand Quiz

Quiz Start Time: 06:42 PM, 30 December 2020

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

Total Marks:

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

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Reload Math Equations

Select the correct option

- $f'(x) = 12x$
- $f'(x) = 12x^2$
- $f'(x) = x^4$
- $f'(x) = 12x^3$

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MTH101:Grand Quiz

Quiz Start Time: 08:14 PM, 30 December 2020

Question # 14 of 30 (Start time: 08:19:10 PM, 30 December 2020)

Total Marks: 1

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

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Select the correct option

- (●) 5+b
- ( ) 5+b-c

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