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MTH301:Quiz 1 Quiz Start Time: 01:07 PM, 25 May 2021

Question # 2 of 10 (Start time: 01:08:08 PM, 25 May 2021) Total Marks: 1

If $w = x + y$ while $x = r + s$ and $y = r - s$ then which of the following is partial derivative of w w.r.t s ?

Select the correct option

Reload Math Equations

☐	0
☐	2
☐	1
☐	-1

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MTH301:Quiz 1 Quiz Start Time: 01:07 PM, 25 May 2021

Question # 3 of 10 (Start time: 01:11:20 PM, 25 May 2021) Total Marks: 1

The function $z=f(x,y)$ of two variables x and y represents a ----- in space.

Select the correct option

☐	none of these
☐	curve
☐	solid
☐	surface

Question # 4 of 10 (Start time: 01:12:56 PM, 25 May 2021)

Total Marks: 1

The chain rule states that the derivative of $f(g(x))$ is.....

Select the correct option

- | | |
|----------------------------------|-----------------------|
| ☐ | $f(g(x)) \cdot g'(x)$ |
| ☒ | $f'(g(x)) \cdot f(x)$ |
| ☐ | $f(g(x)) \cdot g(x)$ |
| ☐ | $f(g(x)) \cdot g'(x)$ |

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Question # 5 of 10 (Start time: 01:13:54 PM, 25 May 2021)

Total Marks: 1

if $z = f(x)$ and $x = \sin t$ then by chain rule $\frac{dz}{dt} =$

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|----------------------------|
| ☒ | $f'(\sin t) \cdot \cos t$ |
| ☐ | $-f'(\sin t) \cdot \sin t$ |
| ☐ | $f'(\sin t) \cdot \sin t$ |
| ☐ | $-f'(\sin t) \cdot \cos t$ |

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The function $z = f(x, y)$ is continuous

Select the correct option

Reload Math Equations

☐	in whole region of xy plane
☒	where $xy > 0$
☐	where $xy < 0$
☐	where $xy \geq 0$

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Click to Save Answer & Move to Next Question

MTH301:QUIZ 1

Quiz Start Time: 01:07 PM, 25 May 2021

Question # 7 of 10 (Start time: 01:16:01 PM, 25 May 2021)

Total Marks: 1

The function

$$z = f(x, y)$$

represents a surface in/on-----.

Select the correct option

Reload Math Equations

☒	plane
☐	line
☐	vector space in plane
☐	space

Question # 8 of 10 (Start time: 01:16:51 PM, 25 May 2021)

Total Marks: 1

The differentiable functions are continuous in its domain.

Select the correct option

☒	everywhere	VUAnswer.com
☐	somewhere	
☐	nowhere	
☐	only at (0,0)	

Question # 9 of 10 (Start time: 01:17:46 PM, 25 May 2021)

Total Marks: 1

The partial derivative at any point on the surface represents the slope of tangent ----- at that point.

Select the correct option

☐	none of these	
☒	plane	VUAnswer.com
☐	line	
☐	normal	

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MTH301:QUIZ 1 Quiz Start Time: 01:07 PM, 25 May 2021

Question # 10 of 10 (Start time: 01:18:25 PM, 25 May 2021) Total Marks: 1

For which of the following values of "y", the partial derivative of

$$z = \frac{2}{y(x-1)}$$

Select the correct option

[Reload Math Equations](#)

☒ R-{1,0}

☐ R-{0}

☐ R

☐ R-{1}

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The function of the form $f(x, y) = 3x^2x^5$ is _____ in the domain.

Select the correct option

[Reload Math Equations](#)

☒ continuous everywhere

☐ piecewise continuous

☐ may or may not be continuous

☐ discontinuous

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

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1:08 PM 5/25/2021

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MTH301:Quiz 1 Quiz Start Time: 10:38 AM, 25 May 2021

Question # 1 of 10 (Start time: 10:38:10 AM, 25 May 2021) Total Marks: 1

Domain of the following function is

$$f(x) = \frac{(x+2)}{[(x-2)(x-8)]}$$

Select the correct option

[Reload Math Equations](#)

☐	$\forall x \in \mathbb{R}; x < 2$
☐	None of these
☒	$\forall x \in \mathbb{R}; x > 2$
☐	$\forall x \in \mathbb{R}; x > 8$

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MTH301:Quiz 1 Quiz Start Time: 10:38 AM, 25 May 2021

Question # 3 of 10 (Start time: 10:40:24 AM, 25 May 2021) Total Marks: 1

If $w = x + y$ while $x = r + s$ and $y = r - s$ then which of the following is partial derivative of w w.r.t s ?

Select the correct option

[Reload Math Equations](#)

☒	-1
☐	0
☐	2
☐	1

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MTH301:Quiz 1 Quiz Start Time: 10:38 AM, 25 May 2021

Question # 4 of 10 (Start time: 10:41:01 AM, 25 May 2021) Total Marks: 1

The chain rule can be taken as the derivative of the outer function and multiplying it times the derivative of the

Select the correct option

☒ the inner function

☐ composite function

☐ single valued function

☐ real valued function

Click to Save Answer & Move to Next Question

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MTH301:Quiz 1 Quiz Start Time: 10:38 AM, 25 May 2021

Question # 2 of 10 (Start time: 10:39:46 AM, 25 May 2021) Total Marks: 1

If two dogs are pulling a bone with force=20Newtons in opposite direction, then the resultant force is-----

Select the correct option

☐ -40 Newton

☒ Zero Newton

☐ 40 Newton

☐ -20 Newton

Click to Save Answer & Move to Next Question

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