

MTH281

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1. The _____ of a function is a collection of its inputs.

--->> Domain

Boundary

Discrete

Interval

2. $\sum_{k=1}^{\infty} (1 - \frac{1}{k-1})$ converges at

-2

-1

$\ln(0)$

--->> 1

3. Suppose $f(x) = -\cos x$ then $f'(x)$

$\cos x$

--->> $-\cos x$

$\sin x$

$\tan x$

4. $x^1 + x^2 + \dots +$ is called a _____.

--->> Series

Sequence

Set

Matrix

5. Suppose $f(x,y) = x^2 + 2y$ then $f(3,1)$ is

9

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--->> 11

12

6. A _____ series is a series in which there is a constant ratio between successive terms.

--->> Geometric

Arithmetic

System

Sequence

7. If $f(x,y) = xy - 2x^2y^3$ then $f(1,2)$ is

-11

-12

-13

--->> -14

8. Suppose $z = x^2 + 4xy + 2y - 1$ then $\frac{\partial z}{\partial y}$ is

--->> $4x + 2$

$3x$

$3x - 1$

1

9. By the _____ test, a power series obviously diverges for any value of x , which lies outside the interval converges.

--->> Ratio

Product

Sum

Value

10. Given that $u = 4x^{-2} - 8xy^4 + 7y^5 - 3$ then u_{xx} is

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