MANITOBA INTRODUCTION TO CALCULUS 45S · UNIT A · 25 QUESTIONS

Limits — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The definite integral from 0 to 4 of 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The definite integral from 0 to 2 of 6 x plus 1 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The derivative of $1x^2 + 1x$ at $x = 2$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The limit as x approaches 5 of 5 x plus 1 is**

ANSWER _____

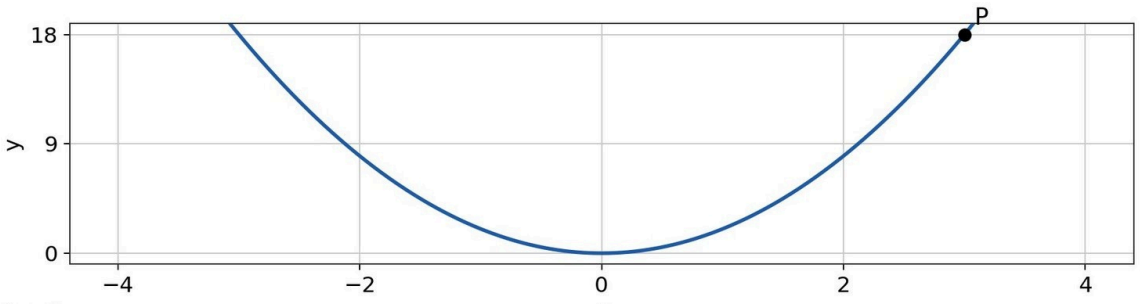
Understand It with Pulse | Flag a mistake

5 **The derivative of $2x^3$ at $x = 3$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The graph shows $y = 2x^2$. The slope of the tangent at $x = 3$ is**



ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A polygon with five sides is a**

A hexagon

B pentagon

C octagon

D heptagon

Understand It with Pulse | Flag a mistake

8 **A straight line graph has a slope that is**

A increasing

B zero always

C undefined always

D constant

Understand It with Pulse | Flag a mistake

9 **In a right triangle, the side opposite the right angle is the**

A adjacent

B opposite side

C hypotenuse

D base

Understand It with Pulse | Flag a mistake

10 **In the expression 3x plus 5, the letter x is the**

A coefficient

B constant

C variable

D term

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11 **In the expression 3x plus 5, the number 3 is the**

A constant

B coefficient

C variable

D solution

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12 **The longest side of a right triangle is the**

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

13 **The point where a graph crosses the x axis is the**

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

14 **The point where a graph crosses the y axis is the**

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

15 **The slope of a horizontal line is**

A zero

B one

C undefined

D negative

Understand It with Pulse | Flag a mistake

16 **The definite integral from 0 to 2 of 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **The definite integral from 0 to 4 of 6 x plus 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The derivative of $3x^2 + 5x$ at $x = 4$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The limit as x approaches 5 of 3 x plus 1 is**

ANSWER _____

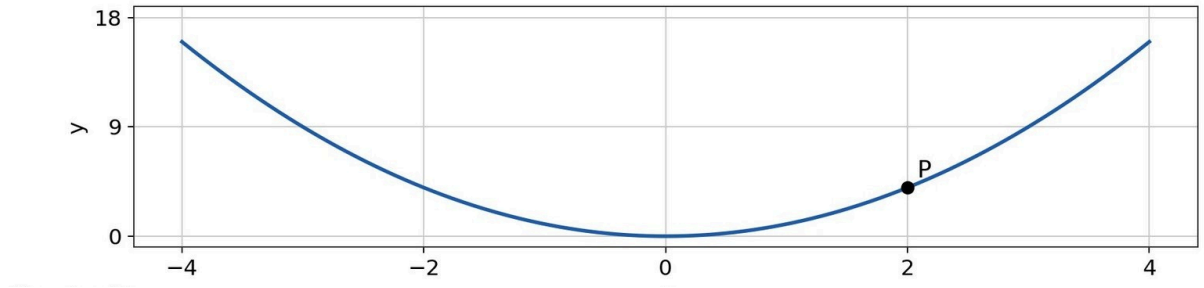
Understand It with Pulse | Flag a mistake

20 The derivative of 1 x^3 at x = 2 is

ANSWER

Understand It with Pulse | Flag a mistake

21 The graph shows y = 1x^2 . The slope of the tangent at x = 2 is



ANSWER

Understand It with Pulse | Flag a mistake

22 The definite integral from 0 to 5 of 5 is

ANSWER

Understand It with Pulse | Flag a mistake

23 The definite integral from 0 to 4 of 6 x plus 4 is

ANSWER

Understand It with Pulse | Flag a mistake

24 **The derivative of $2x^2 + 3x$ at $x = 3$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The limit as x approaches 5 of 4 x plus 1 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 16
2. 14
3. 5
4. 26
5. 54
6. 12
7. B
8. D
9. C
10. C
11. B
12. B
13. B
14. A
15. A
16. 4
17. 60
18. 29
19. 16
20. 12
21. 4
22. 25
23. 64
24. 15
25. 21

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