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

Integrals — 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 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The limit as x approaches 5 of 2 x plus 1 is**

ANSWER _____

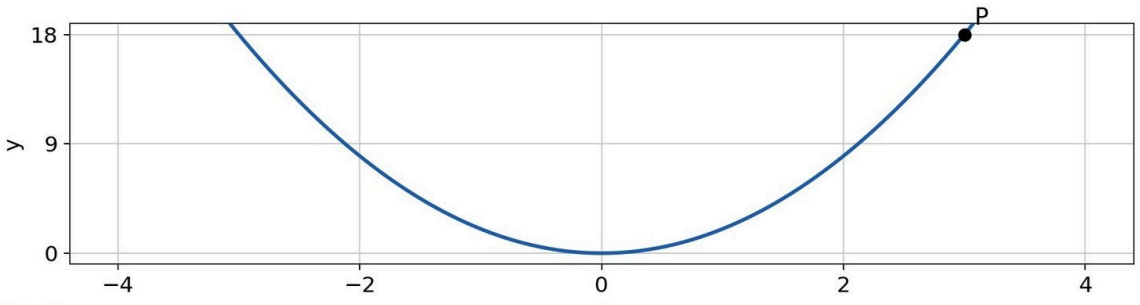
Understand It with Pulse | Flag a mistake

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 _____

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7 **A triangle with all sides equal is**

A isosceles

B scalene

C equilateral

D right

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8 **A triangle with no sides equal is**

A scalene

B isosceles

C equilateral

D right

Understand It with Pulse | Flag a mistake

9 **A triangle with two sides equal is**

A equilateral

B scalene

C obtuse

D isosceles

Understand It with Pulse | Flag a mistake

10 **An angle measuring 90 degrees is a**

A acute angle

B right angle

C obtuse angle

D straight angle

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11 **An angle measuring less than 90 degrees is an**

A obtuse angle

B right angle

C acute angle

D reflex angle

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12 **An angle measuring more than 90 degrees but less than 180 degrees is an**

A acute angle

B right angle

C reflex angle

D obtuse angle

Understand It with Pulse | Flag a mistake

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

A adjacent

B opposite side

C hypotenuse

D base

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14 **The highest or lowest point of a parabola is the**

A vertex

B intercept

C axis

D root

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15 **The line that divides a parabola into two equal halves is the**

A directrix

B axis of symmetry

C asymptote

D tangent

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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 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

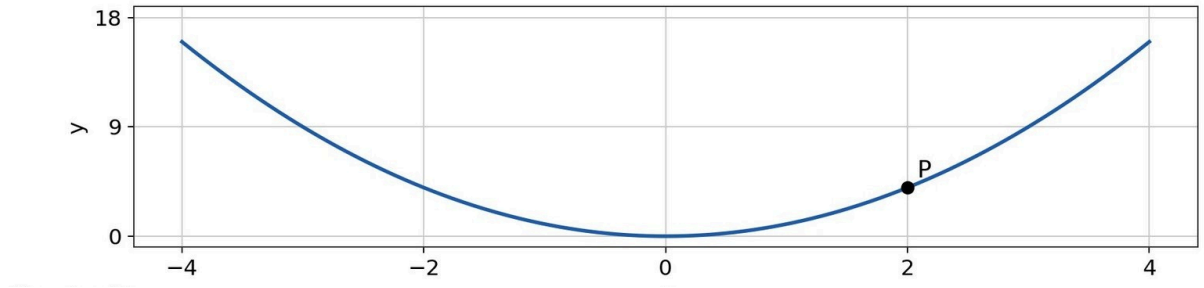
Understand It with Pulse | Flag a mistake

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 1 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 6 x plus 1 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 16
2. 18
3. 29
4. 11
5. 54
6. 12
7. C
8. A
9. D
10. B
11. C
12. D
13. C
14. A
15. B
16. 4
17. 68
18. 5
19. 26
20. 12
21. 4
22. 25
23. 52
24. 15
25. 31

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