MANITOBA PRE-CALCULUS MATHEMATICS 40S · UNIT D · 25 QUESTIONS

Exponential and Logarithmic Functions — 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 **Evaluate $f(x) = a\,x^2 + b\,x + c$ when $a = 1$, $b = 1$, $c = 1$, and $x = 2$. The result is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Evaluate 2×2^3. The result is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Let $f(x) = 4x + 5$ and $g(x) = 3x + 2$. The value of $f(g(4))$ is**

ANSWER _____

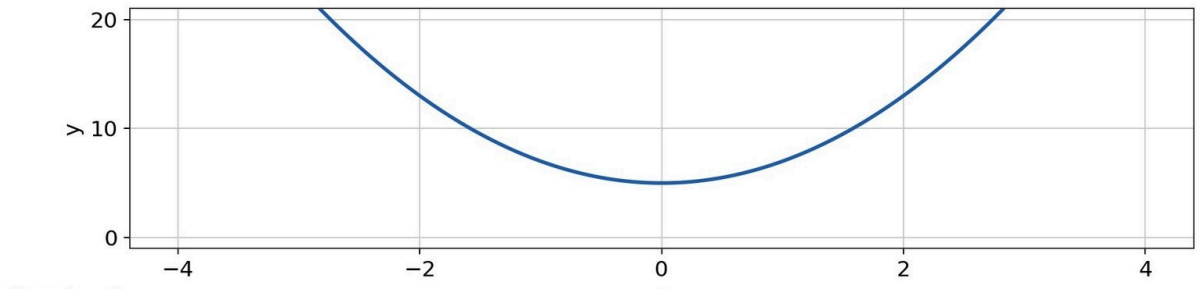
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4 **Let f(x) = 3x + 1 . The inverse function at 10 is**

ANSWER

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5 **The graph shows y = 2x + 5 . The value of f(4) is**



ANSWER

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6 **The vertex of the parabola f(x) = 2x² -20x + 3 has x coordinate**

ANSWER

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

A equilateral

B scalene

C obtuse

D isosceles

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

A acute angle

B right angle

C obtuse angle

D straight angle

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9 **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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10 **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

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11 **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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12 **The highest or lowest point of a parabola is the**

A vertex

B intercept

C axis

D root

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13 **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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14 **The longest side of a right triangle is the**

A adjacent

B hypotenuse

C opposite

D leg

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15 **Evaluate $f(x) = a\,x^2 + b\,x + c$ when $a = 1$, $b = 5$, $c = 1$, and $x = 4$. The result is**

ANSWER _____

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16 **Evaluate 4×2^3 . The result is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Let $f(x) = 2x + 5$ and $g(x) = 3x + 6$. The value of $f(g(4))$ is**

ANSWER _____

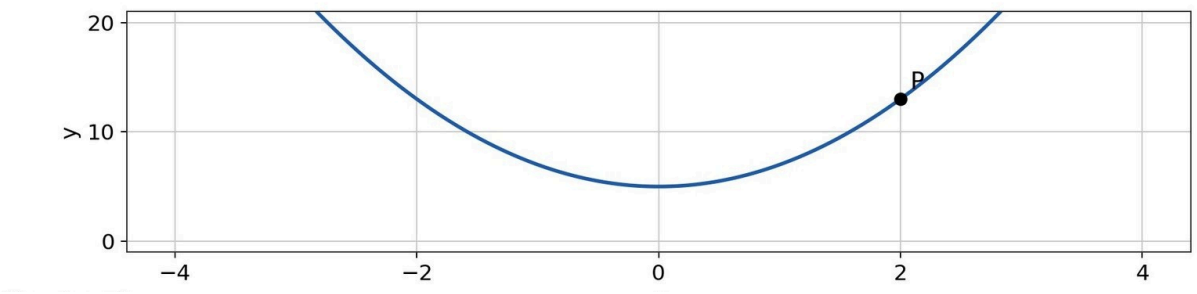
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18 **Let $f(x) = 4x + 7$. The inverse function at 27 is**

ANSWER _____

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19 The graph shows y = 2x + 5 . The value of f(2) is



ANSWER

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20 The vertex of the parabola f(x) = 2x² -4x + 3 has x coordinate

ANSWER

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21 Evaluate f(x) = a x² + b x + c when a = 3 , b = 7 , c = 7 , and x = 5 . The result is

ANSWER

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22 Evaluate 3 × 2² . The result is

ANSWER

Understand It with Pulse | Flag a mistake

23 Let f(x) = 4x + 5 and g(x) = 3x + 4 . The value of f(g(4)) is

ANSWER

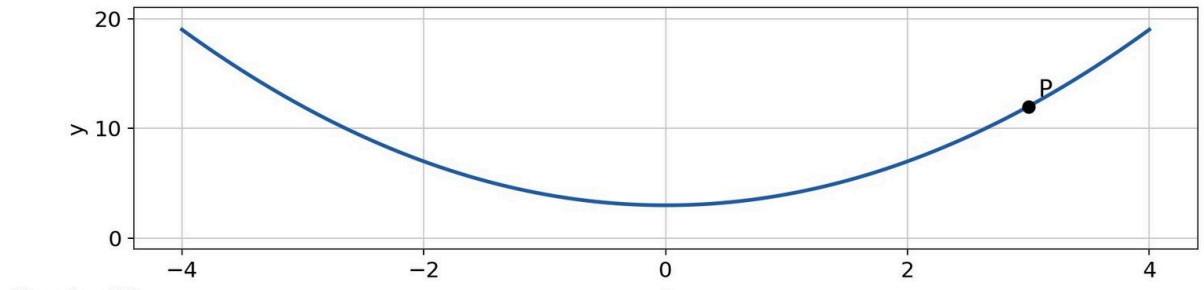
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24 Let f(x) = 5x + 3 . The inverse function at 33 is

ANSWER

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25 The graph shows y = 1x + 3 . The value of f(3) is



ANSWER

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ANSWER KEY

1. 7
2. 16
3. 61
4. 3
5. 37
6. 5
7. D
8. B
9. C
10. D
11. C
12. A
13. B
14. B
15. 37
16. 32
17. 41
18. 5
19. 13
20. 1
21. 117
22. 12
23. 69
24. 6
25. 12

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