DELAWARE ALGEBRA II · UNIT 1 · 25 QUESTIONS

Functions and Graphs — 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 slope of the line through (-4, 0) and (-2, -4) is**

- **A** $-\frac{3}{2}$
- **B** -2
- **C** 2/-4
- **D** -4

Understand It with Pulse | Flag a mistake

2 **Evaluate $3x^3$ when x = 2.**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Solve 4x + 10 > 30.**

- **A** x > 5
- **B** x > 6
- **C** x < 5
- **D** x > 4

Understand It with Pulse | Flag a mistake

4 **An arithmetic sequence starts with 8 and has common difference 5. The 6 term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **For $f(x) = x^2 + 2x + 2$, find $f(-3)$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Evaluate $1x^3$ when x = -2.**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Solve 4x + 8 > 28.**

A x > 6

B x < 5

C x > 5

D x > 4

Understand It with Pulse | Flag a mistake

8 **An arithmetic sequence starts with 1 and has common difference 2. The 8 term is**

ANSWER _____

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9 For $f(x) = x^2 + 3x + 2$, find $f(3)$.

ANSWER _____

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10 The slope of the line through (3, 5) and (6, 7) is

A $\frac{3}{3}$

B $\frac{2}{3}$

C $\frac{3}{2}$

D 2

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11 **Solve: x + y = 0, x - y = 6. The solution is**

A (-3, 3)

B (3, 3)

C (3, -3)

D (-3, -3)

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12 **Evaluate $3x^3$ when x = -1.**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Solve 4x + 8 > 20.**

A x > 3

B x > 4

C x < 3

D x > 2

Understand It with Pulse | Flag a mistake

14 **An arithmetic sequence starts with 1 and has common difference 5. The 8 term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **For f(x) = 2x² + -5x + 2, find f(0).**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Solve: x + y = -3, x - y = -1. The solution is**

A (-2, -1)

B (-1, -2)

C (-2, 1)

D (2, -1)

Understand It with Pulse | Flag a mistake

17 **Evaluate $3x^3$ when x = -3.**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Solve 3x + 8 > 20.**

- **A** x > 5
- **B** x < 4
- **C** x > 4
- **D** x > 3

Understand It with Pulse | Flag a mistake

19 **An arithmetic sequence starts with 6 and has common difference 3. The 7 term is**

ANSWER _____

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20 **For f(x) = x² + -5x + 2, find f(3).**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The slope of the line through (-3, 2) and (-1, 8) is**

- **A** $\frac{7}{2}$
- **B** 3
- **C** $\frac{2}{6}$
- **D** 6

Understand It with Pulse | Flag a mistake

22 **Evaluate $1x^3$ when x = -3.**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Solve 3x + 6 > 15.**

- **A** x > 3
- **B** x > 4
- **C** x < 3
- **D** x > 2

Understand It with Pulse | Flag a mistake

24 **An arithmetic sequence starts with 1 and has common difference 4. The 8 term is**

ANSWER _____

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25 **For f(x) = 0x² + -5x + 2, find f(-3).**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. 24
3. A
4. 33
5. 5
6. -8
7. C
8. 15
9. 20
10. B
11. C
12. -3
13. A
14. 36
15. 2
16. A
17. -81
18. C
19. 24
20. -4
21. B
22. -27
23. A
24. 29
25. 17

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