DELAWARE ALGEBRA II · UNIT 2 · 25 QUESTIONS

Polynomials and Rational 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 $2x^3$ when $x = 2$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Simplify $\frac{6}{12}$.**

A $\frac{6}{13}$

B $\frac{7}{12}$

C $\frac{1}{2}$

D 6

Understand It with Pulse | Flag a mistake

3 **The vertex of the parabola $y = (x - -1)^2 + -1$ is**

A (1, -1)

B (-1, 1)

C (0, 0)

D (-1, -1)

Understand It with Pulse | Flag a mistake

4 **For $f(x) = 2x^2 + 1x + 2$, find $f(-3)$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The equation $x^2 + -5x + 6 = 0$ has solutions**

A -2 and -3

B 2 and 3

C 2 and -3

D 0

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Simplify $\frac{4}{6}$.**

- A $\frac{4}{7}$
- B $\frac{5}{6}$
- C 4
- D $\frac{2}{3}$

Understand It with Pulse | Flag a mistake

8 **The vertex of the parabola $y = (x - -1)^2 + 3$ is**

- A (-1, 3)
- B (1, 3)
- C (-1, -3)
- D (0, 0)

Understand It with Pulse | Flag a mistake

9 For $f(x) = 2x^2 + 4x + 2$, find $f(3)$.

ANSWER _____

Understand It with Pulse | Flag a mistake

10 The equation $x^2 + -3x + -4 = 0$ has solutions

A -4 and 1

B 4 and 1

C 4 and -1

D 0

Understand It with Pulse | Flag a mistake

11 Evaluate $2x^3$ when $x = -1$.

ANSWER _____

Understand It with Pulse | Flag a mistake

12 Simplify $\frac{6}{6}$.

- A 1
- B $\frac{6}{7}$
- C $\frac{7}{6}$
- D 6

Understand It with Pulse | Flag a mistake

13 The vertex of the parabola $y = (x - 2)^2 + 3$ is

- A (-2, 3)
- B (2, 3)
- C (2, -3)
- D (0, 0)

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

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **The equation x² + -3x + -4 = 0 has solutions**

A -4 and 1

B 4 and 1

C 0

D 4 and -1

Understand It with Pulse | Flag a mistake

16 **Evaluate 2x³ when x = 0.**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Simplify $\frac{6}{12}$.**

A $\frac{6}{13}$

B $\frac{1}{2}$

C $\frac{7}{12}$

D 6

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

19 The equation $x^2 + 7x + 12 = 0$ has solutions

- A -3 and -4
- B 3 and 4
- C -3 and 4
- D 0

Understand It with Pulse | Flag a mistake

20 Simplify $\frac{2}{6}$.

- A $\frac{2}{7}$
- B $\frac{3}{6}$
- C $\frac{1}{3}$
- D 2

Understand It with Pulse | Flag a mistake

21 For $f(x) = -3x^2 + 0x + 2$, find $f(-2)$.

ANSWER _____

Understand It with Pulse | Flag a mistake

22 Evaluate $2x^3$ when $x = -2$.

ANSWER _____

Understand It with Pulse | Flag a mistake

23 Simplify $\frac{4}{8}$.

A $\frac{4}{9}$

B $\frac{5}{8}$

C 4

D $\frac{1}{2}$

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24 **For f(x) = -1x² + 0x + 2, find f(3).**

ANSWER _____

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25 **The equation x² + -2x + -3 = 0 has solutions**

A -3 and 1

B 3 and 1

C 3 and -1

D 0

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 16
2. C
3. D
4. 17
5. B
6. -54
7. D
8. A
9. 32
10. C
11. -2
12. A
13. B
14. 5
15. D
16. 0
17. B
18. -1
19. A
20. C
21. -10
22. -16
23. D
24. -7
25. C

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