CALIFORNIA ALGEBRA II · UNIT 2 · 10 QUESTIONS

Rational and Radical 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 The solution of $\sqrt{x - 2} = 4$ is

- **A** 14
- **B** 10
- **C** 6
- **D** 18

Understand It with Pulse | Flag a mistake

2 For $x \geq 0$, the simplified form of $\sqrt{x^4}$ is

- A $2x$
- B x^4
- C x^2
- D $|x|$

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3 The domain of $f(x) = 1/x^2 - 9$ is

- A all real numbers
- B $x \neq 3$ and $x \neq -3$
- C $x \neq -3$
- D $x \neq 3$

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4 The sum $2/x + 3/x$, for $x \neq 0$, is

- **A** $\frac{5}{x}$
- **B** $\frac{5}{x^2}$
- **C** $\frac{1}{x}$
- **D** $\frac{6}{x}$

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5 The value of $x^2 - 4/x - 2$ when $x = 6$ is

ANSWER _____

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6 The value of $\sqrt{3 \cdot 27}$ is

ANSWER _____

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7 **The vertical asymptote of f(x) = 1/x + 3 is**

A x = -3

B x = 0

C x = 3

D x = 1

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8 **The vertical asymptote of f(x) = x + 1/x - 2 is**

A x = -2

B x = -1

C x = 1

D x = 2

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9 **The solution of $\sqrt{2x} = 6$ is**

ANSWER _____

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10 **The solution of $\sqrt{x + 1} = 5$ is**

A 24

B 26

C 4

D 36

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ANSWER KEY

1. D
2. C
3. B
4. A
5. 8
6. 9
7. A
8. D
9. 18
10. A

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