NEWFOUNDLAND AND LABRADOR MATHEMATICS 2200 · UNIT C · 10 QUESTIONS

Radical 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 **Think about the property. The value of $\frac{x + 2}{x - 1}$ when x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Recall the property. When solving a radical equation, squaring both sides can introduce**

A. a second variable

B. a vertical asymptote

C. an extraneous root

D. a horizontal asymptote

Understand It with Pulse | Flag a mistake

3 **Apply the property . For x not = -2 , (x^2 - 4) / (x + 2) simplifies to**

- **A** x + 2
- **B** x - 4
- **C** x^2 - 2
- **D** x - 2

Understand It with Pulse | Flag a mistake

4 **The cube root of 27 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The value of the square root of 16 is**

ANSWER _____

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6 **Written in simplest radical form, the square root of 48 is**

- **A** $5\sqrt{3}$
- **B** $4\sqrt{4}$
- **C** $4\sqrt{3}$
- **D** 48

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7 **The value excluded from the domain of $f(x) = \frac{1}{x + 4}$ is**

- **A** $x = 4$
- **B** $x = 0$
- **C** $x = 1$
- **D** $x = -4$

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8 Apply the statement . For x not = 3 , (x^2 - 9) / (x - 3) simplifies to

A x + 3

B x - 3

C x + 9

D x^2 + 3

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9 Solve $\sqrt{x + 1} = 4$ for x. The value of x is

ANSWER _____

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10 Solve $\frac{1}{x} = \frac{1}{8}$ for x. The value of x is

ANSWER _____

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ANSWER KEY

1. 2
2. C
3. D
4. 3
5. 4
6. C
7. D
8. A
9. 15
10. 8

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