ALBERTA MATH 30-1 · 10 QUESTIONS

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 point (16, 4) lies on the graph of $y = \sqrt{x}$. The image of this point on the graph of $y = \sqrt{x - 2} + 5$ is**

- A (14, 9)
- B (18, 9)
- C (16, 9)
- D (18, -1)

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2 **The solution to the equation $\sqrt{x + 5} - \sqrt{x - 3} = 2$ is**

- A 4
- B 13
- C 8
- D 21

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3 **The diagram below shows a radical function. Its domain and range are**

- **A** Domain: x ≥ 5 Range: y ≥ -3
- **B** Domain: x ≥ -5 Range: y ≥ -3
- **C** Domain: x ≥ -5 Range: y ≥ 3
- **D** Domain: x ≥ -3 Range: y ≥ -5

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4 **The graph of $y = \sqrt{x} - k$ passes through the point (25, 1). The value of k is**

ANSWER _____

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5 **The solution to the equation $\sqrt{3x - 2} = x$ is**

- **A** x = 1 only
- **B** x = 2 only
- **C** No solution
- **D** x = 1 and x = 2

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6 **The domain of the function $y = \sqrt{x^2 + 4x + 4}$ is**

- **A** All real numbers
- **B** $x \geq -2$
- **C** $x \leq -2$
- **D** $x \neq -2$

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7 The solution to the equation $\sqrt{x - 6} = -3$ is

- **A** 15
- **B** No solution
- **C** -3
- **D** 3

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8 The solution to the equation $\sqrt{2x + 7} = x + 2$ is

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9 The graph of $y = \sqrt{x}$ is reflected in the x-axis and then translated 4 units down. The equation of the resulting graph is

- **A** $y = -\sqrt{x - 4}$
- **B** $y = \sqrt{-x} - 4$
- **C** $y = -\sqrt{x} - 4$
- **D** $y = -\sqrt{x} + 4$

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10 The maximum value of the function $y = \sqrt{-x^2 + 4x - 3} + 1$ is

ANSWER _____

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ANSWER KEY

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

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