Quadratic Functions — Practice Test

Newfoundland and Labrador Mathematics 2201 • 10 questions

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 x coordinate of the vertex of $y = x^2 + 10x + 5$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The discriminant of $x^2 + 7x + 10 = 0$ is**

ANSWER _____

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3 **A ball has height $h = -5t^2 + 30t$ metres . At $t = 1$ seconds , its height in metres is**

ANSWER _____

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4 **Consider the property in general. The domain of any quadratic function is**

- **A** all real numbers
- **B** x greater than 0 only
- **C** y greater than 0 only
- **D** integers only

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5 **The vertex of $y = (x - -1)^2 + 5$ is**

- **A** (1, 5)
- **B** (-1, 5)
- **C** (-1, -5)
- **D** (1, -5)

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6 **The axis of symmetry of $y = x^2 + 4x + 1$ is x equals**

ANSWER _____

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7 **The smaller x intercept of $y = (x - 6)(x + 2)$ is**

ANSWER _____

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8 **The y intercept of $y = x^2 - 2x + 6$ is**

ANSWER _____

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9 **Consider the statement in general. The graph of a quadratic function is called**

- A a line
- B a parabola
- C a hyperbola
- D a circle

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10 **The number of real roots of $1x^2 + 3x + 2 = 0$ is**

ANSWER _____

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ANSWER KEY

1.	-5	**5.**	B	**9.**	B
2.	9	**6.**	-2	**10.**	2
3.	25	**7.**	-2		
4.	A	**8.**	6		

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