NEWFOUNDLAND AND LABRADOR MATHEMATICS 2200 · UNIT B

Quadratic Functions — Practice Test

Newfoundland and Labrador Mathematics 2200 • 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 **Think about the property. The range of $y = (x - 1)^2 + -4$ is**

- **A** $y \leq -4$
- **B** $y \geq -4$
- **C** $y \geq 1$
- **D** $y \leq 1$

Understand It with Pulse | Flag a mistake

2 **For $x^2 + 5x + 6 = 0$ the discriminant is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Apply the property . Compared with $y = x^2$, $y = 3x^2$ is**

A wider

B shifted left by 3

C shifted down by 3

D narrower

Understand It with Pulse | Flag a mistake

4 **A ball has height $h = -5t^2 + 20t$ metres after t seconds . At t = 1 seconds , its height in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

6 The axis of symmetry of $y = x^2 + -10x + 3$ is

- A x = 7
- B x = 5
- C x = -5
- D x = 3

Understand It with Pulse | Flag a mistake

7 For $y = 1x^2 + -6x + 9$ the number of real x intercepts is

- A 2 distinct real roots
- B no real roots
- C infinitely many x intercepts
- D 1 real root

Understand It with Pulse | Flag a mistake

8 The larger root of $x^2 - 7x + 10 = 0$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

9 The x coordinate of the vertex of $y = x^2 + -6x$ is

ANSWER _____

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10 **Review the statement. A parabola that opens downward has a leading coefficient that is**

A positive

B zero

C negative

D equal to 1

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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