QUADRATIC FUNCTIONS AND EQUATIONS, LINEAR AND QUADRATIC INEQUALITIES - PRACTICE TEST | NEW BRUNSWICK PRE-CALCULUS 110 · UNIT E · 10 QUESTIONS

Quadratic Functions and Equations, Linear and Quadratic Inequalities — Practice Test

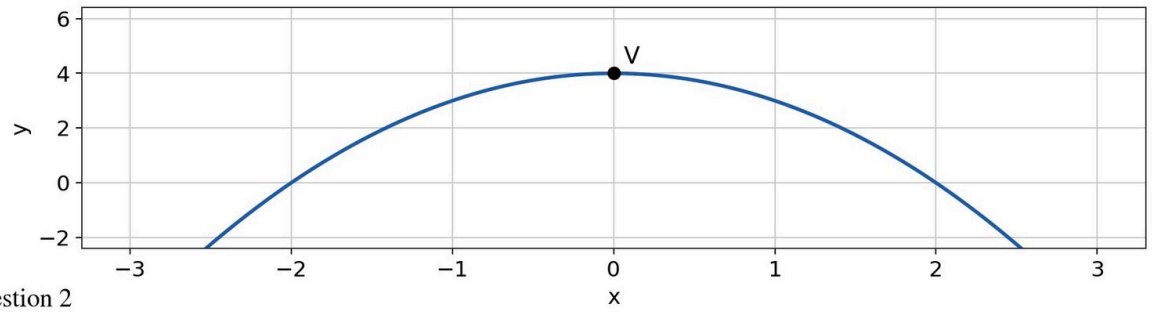
This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The value of $x^2 - 5x + 6$ when $x = 6$ is**

ANSWER

Understand It with Pulse | Flag a mistake

2 The graph shows y = -x² + 4 . The vertex is the point labelled



Question 2

The graph shows $y = -x^2 + 4$. The vertex is the point labelled

A) the origin

B) V

C) an intercept

D) none of these

- **A** the origin
- **B** V
- **C** an intercept
- **D** none of these

Understand It with Pulse | Flag a mistake

3 **The graph of a quadratic inequality y is greater than x^2 is shaded**

A below the parabola

B inside the parabola only

C to the left only

D above the parabola

Understand It with Pulse | Flag a mistake

4 **The roots of $x^2 - 4x + 4$ are**

A 2 only, repeated

B 2 and -2

C 4 only

D 0 and 4

Understand It with Pulse | Flag a mistake

5 **A quadratic equation with two distinct real roots crosses the x axis**

- A once
- B twice
- C never
- D three times

Understand It with Pulse | Flag a mistake

6 **The larger root of $x^2 - 9x + 20 = 0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The value of $x^2 - 5x + 6$ when $x = 8$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The smaller root of $x^2 - 13x + 42 = 0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The discriminant of $x^2 + 10x + 25$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The larger root of $x^2 - 13x + 42 = 0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	12	**5.**	B	**9.**	0
2.	B	**6.**	5	**10.**	7
3.	D	**7.**	30		
4.	A	**8.**	6		

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