QUADRATIC FUNCTIONS - PRACTICE TEST | NEW BRUNSWICK FOUNDATIONS OF MATHEMATICS 110 · UNIT D · 10 QUESTIONS

Quadratic Functions, 10-question test — 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 quadratic x squared plus 7x plus 10 factors with roots whose product is

Question 1

The quadratic with roots -3 and 1 has its larger root equal to

ANSWER

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2

The quadratic x squared plus -3x plus -4 factors with roots whose product is

Question 2

The value of $y = x^2 - 3x + 2$ when $x = 4$ is

ANSWER

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3

The graph shows y equals x squared minus 1. The y intercept of the parabola is

Question 3

The vertex of the parabola $y = x$ minus 0^2 plus 5 has its x coordinate $=$

A 0

B negative 1

C 1

D 2

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4 A quadratic with discriminant less than zero has

Question 4

A parabola has vertex x coordinate 3. Its axis of symmetry is x equals

- A one real root
- B two real roots
- C three real roots
- D no real roots

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5 Factoring x squared minus 9 gives

Question 5

The y intercept of $y = x^2 + 2x + 5$ is

A) 2

B) 5

C) 1

D) 0

- **A** x minus 3 times x plus 3
- **B** x minus 9 times x plus 9
- **C** x squared minus 3
- **D** x minus 3 squared

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6 The y intercept of y equals x squared plus 2x plus 5 is

Question 6

The quadratic with roots 4 and 9 has its larger root equal to

A 2

B 5

C 1

D 0

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7 The value of y equals x squared minus 3x plus 2 when x equals 4 is

Question 7

The value of $y = x^2 + 3x + 2$ when $x = 3$ is

ANSWER

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8 The quadratic with roots 6 and 10 has its larger root equal to

Question 8

The vertex of the parabola $y = x$ minus -3^2 plus 2 has its x coordinate $=$

ANSWER

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9 The value of y equals x squared plus 3x plus 2 when x equals 3 is

Question 9

The quadratic with roots 6 and 10 has its larger root equal to

ANSWER

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10 The value of y equals x squared minus x plus 1 when x equals 3 is

Question 10

The value of $y = x^2 - x + 1$ when $x = 3$ is

ANSWER

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ANSWER KEY

1. 10
2. -4
3. B
4. D
5. A
6. B
7. 6
8. 10
9. 20
10. 7

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