

Brett Robbins Academic Consulting

Mathematics 20-1 Practice Test

Unit 3: Quadratics

10 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

Question 1

The vertex of the graph of $y = 3(x - 4)^2 + 2$ is

A) $(4, -2)$

B) $(-4, 2)$

C) $(4, 2)$

D) $(-4, -2)$

Question 2

The y-intercept of the graph of $y = x^2 - 5x + 6$ is

A) -6

B) 6

C) 5

D) 11

Question 3

The quadratic equation with roots 3 and -2 is

A) $x^2 - x - 6 = 0$

B) $x^2 + x - 6 = 0$

C) $x^2 - 5x + 6 = 0$

D) $x^2 + 5x + 6 = 0$

Question 4

The larger root of the equation $x^2 - 7x + 12 = 0$ is

Question 5

Compared to the graph of $y = x^2$, the graph of $y = (x + 2)^2 - 7$ is translated

A) 2 units right and 7 units down

B) 2 units left and 7 units up

C) 2 units right and 7 units up

D) 2 units left and 7 units down

Answer Key

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

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