ONTARIO FUNCTIONS AND APPLICATIONS, GRADE 11, UNIVERSITY/COLLEGE PREPARATION (MCF3M) · UNIT A · 5 QUESTIONS

Quadratic Functions — 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 **A soccer ball flying above a green field. A ball is thrown and its height follows $y = (x + 1)^2 + 5$ The vertex of this parabola is**



A (-1, 5)

B (1, 5)

C (-1, -5)

D (1, -5)

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2 **A ball is thrown up with height $h(t) = -5t^2 + 25t$ The maximum height, in metres, is**

- A 36.25
- B 26.25
- C 41.25
- D 31.25

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3 **A ball is thrown up with height $h(t) = -5t^2 + 25t$ The time, in seconds, to reach maximum height is**

- A 5
- B 1.25
- C 3.5
- D 2.5

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4 **A company revenue model is $R(x) = -2x^2 + 100x$ where x is price in dollars. The revenue is zero when x is 0 or**

- A 25
- B 100
- C 50
- D 52

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5 **A quadratic function has zeros at 2 and 10 Its axis of symmetry is x equal to**

- A 6
- B 7
- C 5
- D 8

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ANSWER KEY

1. A
2. D
3. D
4. C
5. A

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