ONTARIO PRINCIPLES OF MATHEMATICS, GRADE 10, ACADEMIC (MPM2D) · UNIT A · 5 QUESTIONS

Quadratic Relations — 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 glowing pink neon OPEN sign hangs in a dark shop window at night. A shop sells notebooks. Revenue, in dollars, at price p dollars is $R(p) = -2p^2 + 60p$. The price, in dollars, that gives maximum revenue is**



ANSWER

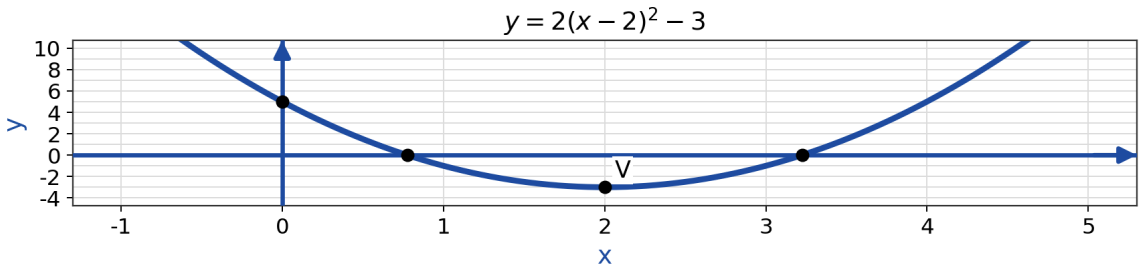
Understand It with Pulse | Flag a mistake

2 **A shop sells notebooks. Revenue, in dollars, at price p dollars is $R(p) = -p^2 + 40p$. The maximum revenue, in dollars, is**

ANSWER

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3 **The graph shows a parabola. The coordinates of its vertex, marked V, are**



- **A** (2, 3)
- **B** (-2, -3)
- **C** (2, -3)
- **D** (-2, 3)

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4 **The y-coordinate of the vertex of the parabola $y = 3x^2 - 4x + 2$ is**

ANSWER _____

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5 **The larger solution of the equation $x^2 + 4x - 32 = 0$ is**

ANSWER _____

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ANSWER KEY

1. 15
2. 400
3. C
4. 0.666667
5. 4

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