

4-2

Standardized Test Prep

Standard Form of a Quadratic Function

Multiple Choice

For Exercises 1-6, choose the correct letter.

1. What is the vertex of the parabola $y = x^2 + 8x + 5$?

(A) $(4, -11)$ (B) $(-4, -11)$ (C) $(-4, 5)$ (D) $(4, 5)$

$$-\frac{b}{2a} = -\frac{8}{2(1)} = -4$$

$$f(-4) = 16 - 32 + 5 = -16 + 5 = -11$$

2. What is the maximum value of the function $y = -3x^2 + 12x - 8$?

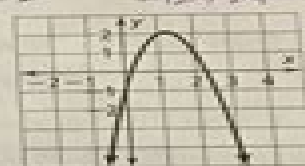
(A) 4 (B) 8 (C) -2 (D) -8

$$-\frac{b}{2a} = \frac{-12}{2(-3)} = 2$$

$$-3(4) + 12(2) - 8 = -12 + 24 - 8 = 4$$

3. Which function has the graph shown at the right?

(A) $y = -2x^2 - 5x - 1$ (B) $y = -2x^2 + 5x - 1$ (C) $y = -2x^2 - 5x - 1$ (D) $y = -2x^2 + 5x - 1$



$$C = -1$$

4. What is the vertex form of the function $y = 3x^2 - 12x + 17$?

(A) $y = 3(x - 2)^2 + 5$ (B) $y = 3(x - 2)^2 + 11$ (C) $y = 3(x + 2)^2 + 5$ (D) $y = 3(x + 2)^2 + 11$

$$3(x^2 - 4x + 4) + 17 - 12$$

5. What is the equation of the parabola with vertex $(3, -20)$ and that passes through the point $(7, 12)$?

(A) $y = 2x^2 + 12x - 2$ (B) $y = 2x^2 - 12x - 2$ (C) $y = -2x^2 + 12x - 38$ (D) $y = 2x^2 - 12x + 38$

$$b = -4 \quad \frac{b}{2} = -2 \quad (-2)^2 = 4$$

$$3(x - 2)^2 + 5$$

6. For the function $y = -5x^2 - 10x + c$, the vertex is $(-1, 8)$. What is c ?

(A) -13 (B) -3 (C) 3 (D) 13

$$8 = -5(-1)^2 - 10(-1) + c$$

$$8 = -5 + 10 + c$$

$$8 = 5 + c$$

$$c = 3$$

Short Response

7. To increase revenue, a county wants to increase park fees. The overall income will go up, but there will be expenses involved in collecting the fees. For a $p\%$ increase in the fees, this cost C will be $C = 0.6p^2 - 7.2p + 48$, in thousands of dollars. What percent increase will minimize the cost to the county? Show your work.

$$-\frac{b}{2a} = \frac{-(-7.2)}{2(0.6)} = \frac{7.2}{1.2} = 6$$

$$f(6) =$$

6% increase to minimize the cost

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