

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

### SECTION 5-2 QUIZ A

Determine the direction in which the graph of the function  $f(x) = x^2 + x - 2$  opens.

- upward
  - downward
  - to the left
  - to the right
- 

Identify the axis of symmetry of the function  $f(x) = x^2 - 6x + 8$ .

- $x = -4$
  - $x = -3$
  - $x = 3$
  - $x = 4$
- 

Identify the  $y$ -intercept of the function  $f(x) = 2x^2 + 3x - 12$ .

- 12
  - 6
  - 6
  - 12
-

Does the function  $g(x) = -2x^2 + 10x + 2$  have a minimum or maximum?

Identify its value.

- minimum;  $-35.5$
- minimum;  $-14.5$
- maximum;  $14.5$
- maximum;  $35.5$

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**\*\*\*EXTRA CREDIT\*\*\***

Identify the domain and range of the function  $f(x) = -2x^2 + 10x + 2$ .

- $D : \mathcal{R}; R : \{y \mid y \leq -14.5\}$
- $D : \mathcal{R}; R : \{y \mid y \geq -14.5\}$
- $D : \mathcal{R}; R : \{y \mid y \leq 14.5\}$
- $D : \mathcal{R}; R : \{y \mid y \geq 14.5\}$