Name: _____   **Date:** _____

1. State the domain and range of the function
   $y = \sqrt{x - 2}$

   A. $x \geq 2$ and $y \geq 0$ B. $x \neq 0$ and $y \neq 0$

   C. $x \in \mathbb{R}$ and $y \in \mathbb{R}$ D. $x \neq 3$ and $y \in \mathbb{R}$

2. State the domain and range of the function
   $y = |x| - 4$

   A. $x \in \mathbb{R}$ and $y \geq -4$ B. $x \in \mathbb{R}$ and $y \leq -4$

   C. $x \in \mathbb{R}$ and $y \geq 4$ D. $x \in \mathbb{R}$ and $y \leq 4$

3. State the domain and range of the function $y = 2^x$

   A. $x \in \mathbb{R}$ and $y > 0$ B. $x \in \mathbb{R}$ and $y \in \mathbb{R}$

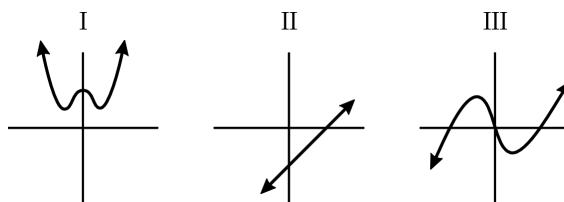   C. $x > 0$ and $y \in \mathbb{R}$ D. $x > 0$ and $y > 0$

4. What is the domain of the quadratic relation
   $x = -(y - 4)^2 + 2$?

   A. $x \geq -4$ B. $x \leq 2$

   C. $x \geq -2$ D. $x \leq 4$

5. What is the domain of the quadratic relation
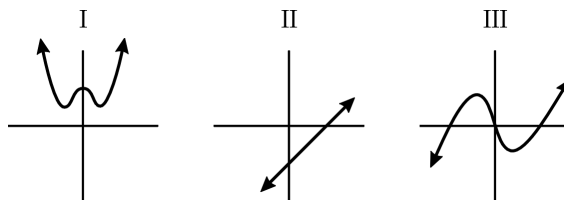 $x = -(y - 5)^2 - 2$?

   A. $x \geq -2$ B. $x \leq -2$

   C. $x \leq 2$ D. $x \geq 5$

6. Of the three functions shown, which are neither
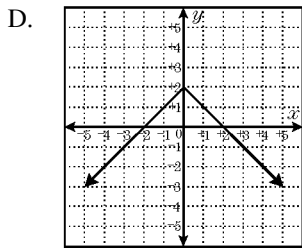   odd nor even?
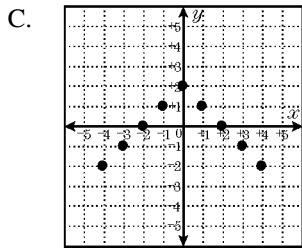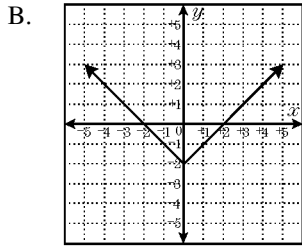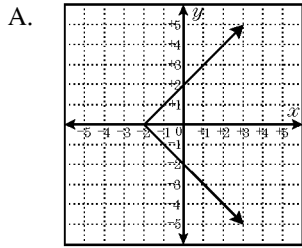
   I   II   III

   A. I only   B. II only

   C. III only   D. II and III

7. Which of the following graphs represent an odd
   function?

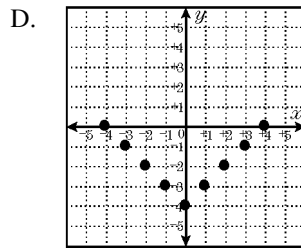   I   II   III
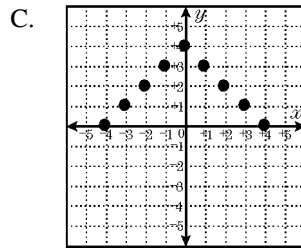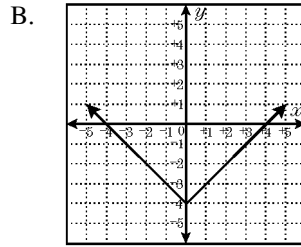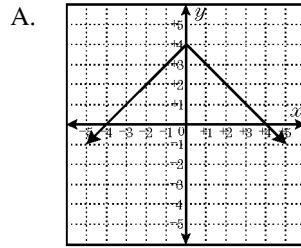

   A. I only   B. II only

   C. III only   D. II and III

8. When x is a real number, which of the following is the graph of $y = -|x| + 2$?

A.

B.

C.

D.

9. When x is a real number, which of the following is the graph of $y = |x| - 4$?

A.

B.

C.

D.

1.
Answer: A
Objective: F.IF.1

2.
Answer: A
Objective: F.IF.1

3.
Answer: A
Objective: F.IF.1

4.
Answer: B
Objective: F.IF.1

5.
Answer: B
Objective: F.IF.1

6.
Answer: B
Objective: F.IF.4

7.
Answer: C
Objective: F.IF.4

8.
Answer: D
Objective: F.IF.7B

9.
Answer: B
Objective: F.IF.7B