

Domain and Range Matching Activity

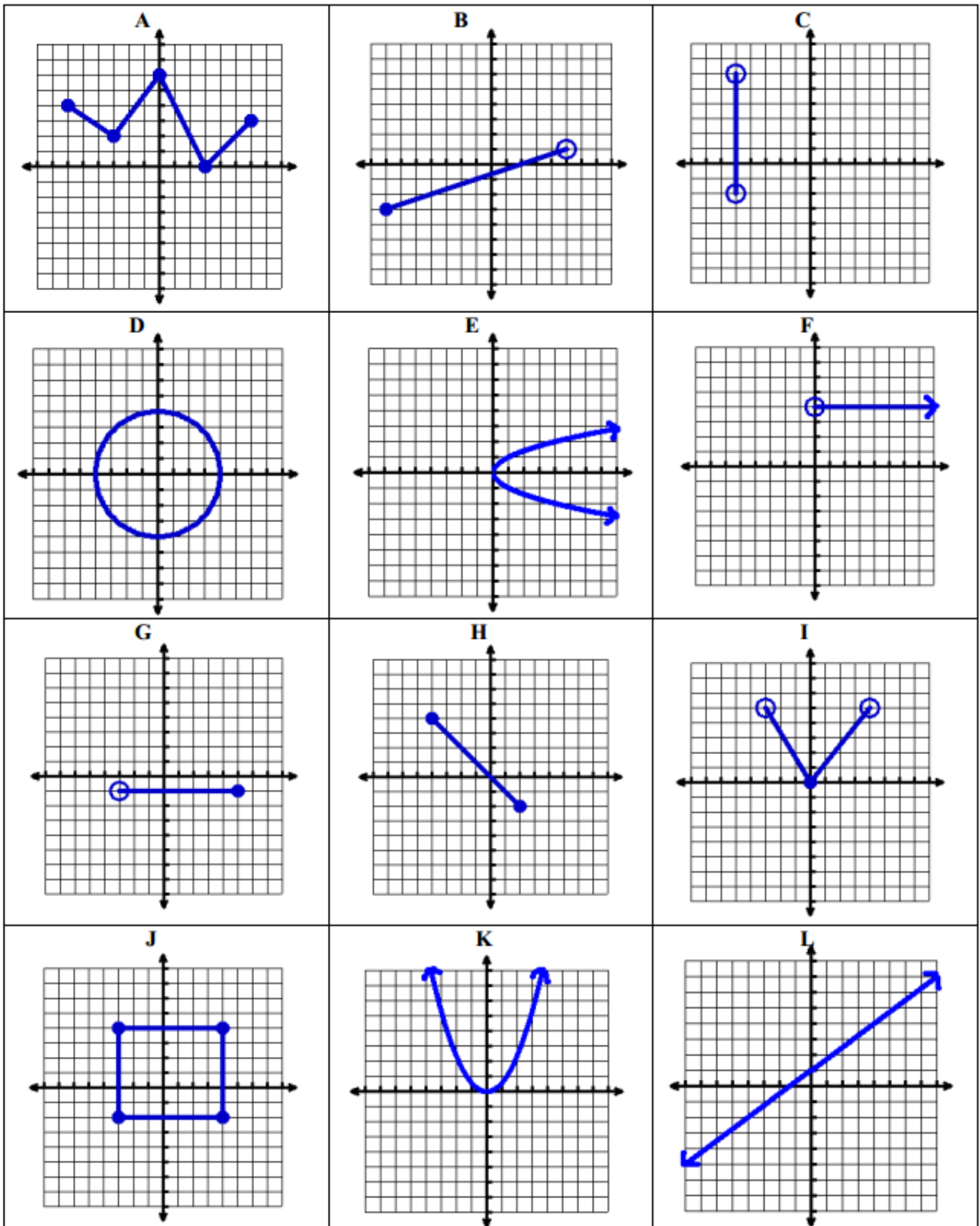
Match each domain and range given in this table with a graph labeled from **A to L** on the following page. Only use Graphs A to L for this page. Write the letter of your answer in the blank provided for each problem.

<p>_____ 1.</p> <p>Domain: $\{-4 \leq x \leq 4\}$</p> <p>Range: $\{-4 \leq y \leq 4\}$</p> <p>Function: NO</p>	<p>_____ 2.</p> <p>Domain: $\{-3 < x \leq 5\}$</p> <p>Range: $\{y = -1\}$</p> <p>Function: YES</p>	<p>_____ 3.</p> <p>Domain: $\{-4 \leq x \leq 2\}$</p> <p>Range: $\{-2 \leq y \leq 4\}$</p> <p>Function: YES</p>
<p>_____ 4.</p> <p>Domain: $\{x > 0\}$</p> <p>Range: $\{y = 4\}$</p> <p>Function: YES</p>	<p>_____ 5.</p> <p>Domain: $\{-6 \leq x \leq 6\}$</p> <p>Range: $\{0 \leq y \leq 6\}$</p> <p>Function: YES</p>	<p>_____ 6.</p> <p>Domain: $\{x = -5\}$</p> <p>Range: $\{-2 < y < 6\}$</p> <p>Function: NO</p>
<p>_____ 7.</p> <p>Domain: $\{x \geq 0\}$</p> <p>Range: $\{\text{all real numbers}\}$</p> <p>Function: NO</p>	<p>_____ 8.</p> <p>Domain: $\{-3 \leq x \leq 4\}$</p> <p>Range: $\{-2 \leq y \leq 4\}$</p> <p>Function: NO</p>	<p>_____ 9.</p> <p>Domain: $\{\text{all real numbers}\}$</p> <p>Range: $\{\text{all real numbers}\}$</p> <p>Function: YES</p>
<p>_____ 10.</p> <p>Domain: $\{-7 \leq x < 5\}$</p> <p>Range: $\{-3 \leq y < 1\}$</p> <p>Function: YES</p>	<p>_____ 11.</p> <p>Domain: $\{\text{all real numbers}\}$</p> <p>Range: $\{y \geq 0\}$</p> <p>Function: YES</p>	<p>_____ 12.</p> <p>Domain: $\{-3 < x < 4\}$</p> <p>Range: $\{0 \leq y \leq 5\}$</p> <p>Function: YES</p>

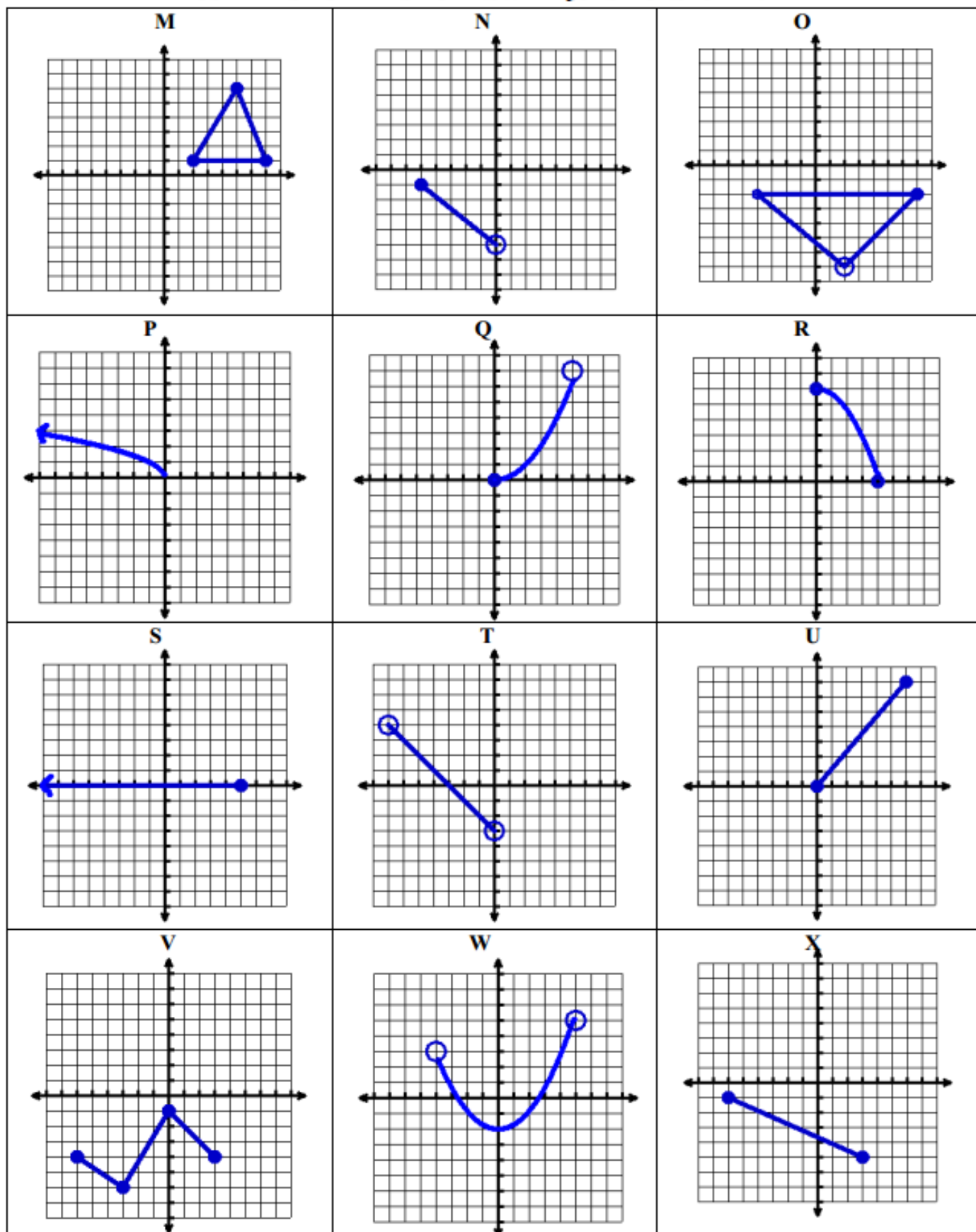
Match each domain and range given in this table with a graph labeled from **M to X** on the following page. Only use Graphs M to X for this page. Write the letter of your answer in the blank provided for each problem.

<p>_____ 13.</p> <p>Domain: $\{-6 \leq x \leq 3\}$</p> <p>Range: $\{-6 \leq y \leq -1\}$</p> <p>Function: YES</p>	<p>_____ 14.</p> <p>Domain: $\{0 \leq x < 5\}$</p> <p>Range: $\{0 \leq y < 7\}$</p> <p>Function: YES</p>	<p>_____ 15.</p> <p>Domain: $\{-5 \leq x < 0\}$</p> <p>Range: $\{-5 < y \leq -1\}$</p> <p>Function: YES</p>
<p>_____ 16.</p> <p>Domain: $\{-6 \leq x \leq 3\}$</p> <p>Range: $\{-5 \leq y \leq -1\}$</p> <p>Function: YES</p>	<p>_____ 17.</p> <p>Domain: $\{0 \leq x \leq 6\}$</p> <p>Range: $\{0 \leq y \leq 7\}$</p> <p>Function: YES</p>	<p>_____ 18.</p> <p>Domain: $\{-4 \leq x \leq 7\}$</p> <p>Range: $\{-7 \leq y \leq -2\}$</p> <p>Function: NO</p>
<p>_____ 19.</p> <p>Domain: $\{x \leq 0\}$</p> <p>Range: $\{y \geq 0\}$</p> <p>Function: YES</p>	<p>_____ 20.</p> <p>Domain: $\{2 \leq x \leq 7\}$</p> <p>Range: $\{1 \leq x \leq 6\}$</p> <p>Function: NO</p>	<p>_____ 21.</p> <p>Domain: $\{0 \leq x \leq 4\}$</p> <p>Range: $\{0 \leq y \leq 6\}$</p> <p>Function: YES</p>
<p>_____ 22.</p> <p>Domain: $\{-4 < x < 5\}$</p> <p>Range: $\{-2 \leq y < 5\}$</p> <p>Function: YES</p>	<p>_____ 23.</p> <p>Domain: $\{x \leq 5\}$</p> <p>Range: $\{y = 0\}$</p> <p>Function: YES</p>	<p>_____ 24.</p> <p>Domain: $\{-7 < x < 0\}$</p> <p>Range: $\{-3 < y < 4\}$</p> <p>Function: YES</p>

USE THESE GRAPHS TO ANSWER QUESTIONS 1 – 12.

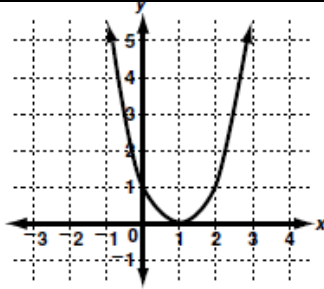


USE THESE GRAPHS TO ANSWER QUESTIONS 13 – 24.



Directions: Evaluate the following functions by looking at the graph.

1.

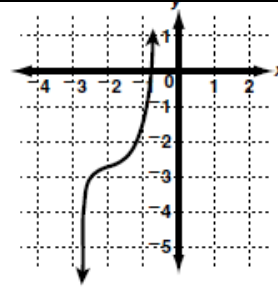


$f(0) =$ _____

$f(1) =$ _____

$f(2) =$ _____

2.

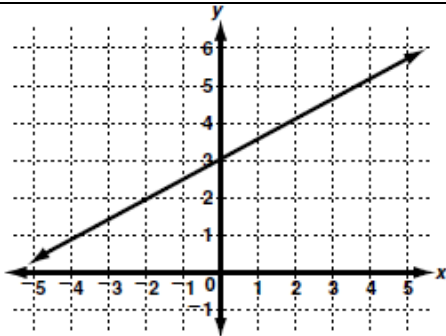


$f(-1) =$ _____

$f(-2) =$ _____

$f(-3) =$ _____

3.



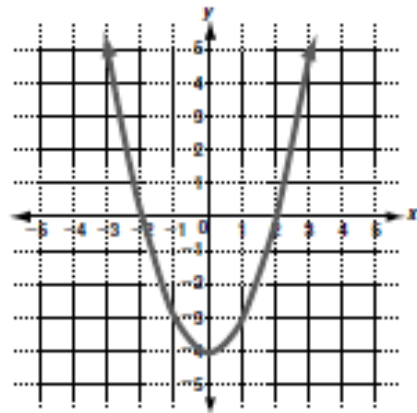
$f(-4) =$ _____

$f(0) =$ _____

$f(2) =$ _____

4.

$f(x) = x^2 - 4$



$f(0) =$ _____

$f(-2) =$ _____