

# Domain & Range Worksheet

Name: \_\_\_\_\_

Rewrite the given domain and range using interval notation.

1.) domain:  $-4 < x \leq 11$

range:  $0 \leq y < 20$

domain: \_\_\_\_\_

range: \_\_\_\_\_

2.) domain:  $x \geq 3$

range:  $y < 4$

domain: \_\_\_\_\_

range: \_\_\_\_\_

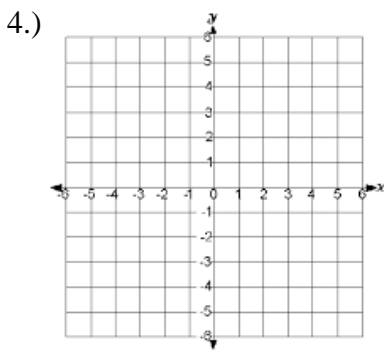
3.) domain: all real numbers

range: all real numbers

domain: \_\_\_\_\_

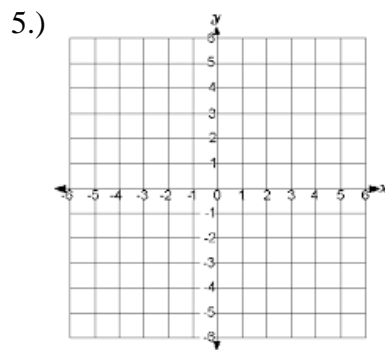
range: \_\_\_\_\_

Identify the domain and range of the relation that has been graphed. Be sure to use interval notation.



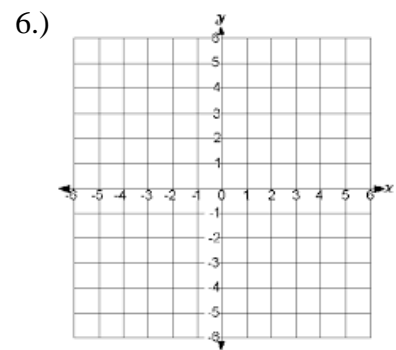
domain: \_\_\_\_\_

range: \_\_\_\_\_



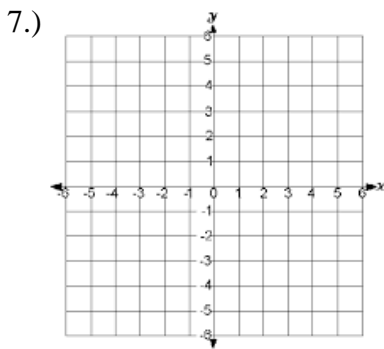
domain: \_\_\_\_\_

range: \_\_\_\_\_



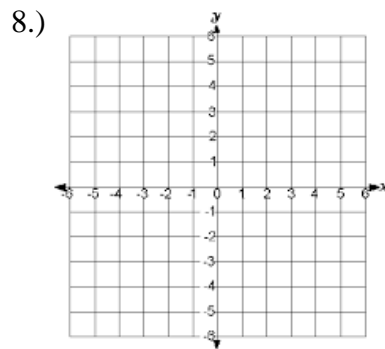
domain: \_\_\_\_\_

range: \_\_\_\_\_



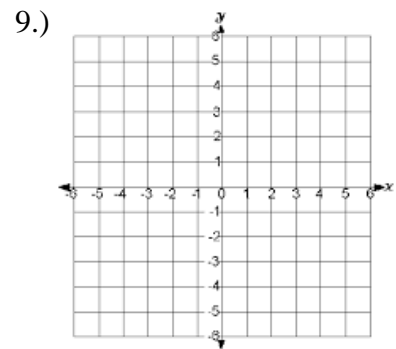
domain: \_\_\_\_\_

range: \_\_\_\_\_



domain: \_\_\_\_\_

range: \_\_\_\_\_

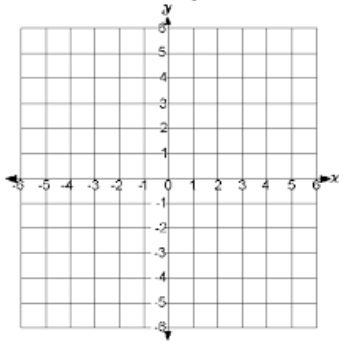


domain: \_\_\_\_\_

range: \_\_\_\_\_

Graph the function using methods learned in chapter two. Identify the function's domain and range using interval notation.

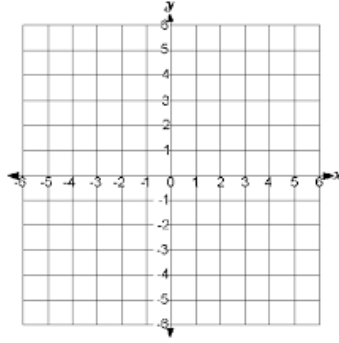
10.)  $f(x) = -\frac{1}{3}x + 2$ ; for  $x > 0$



domain: \_\_\_\_\_

range: \_\_\_\_\_

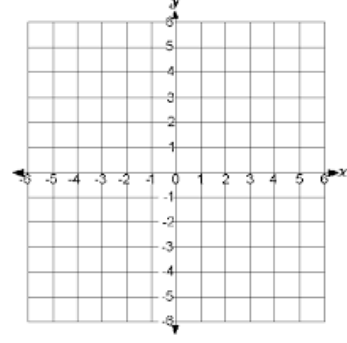
11.)  $-3x - 4y = 12$



domain: \_\_\_\_\_

range: \_\_\_\_\_

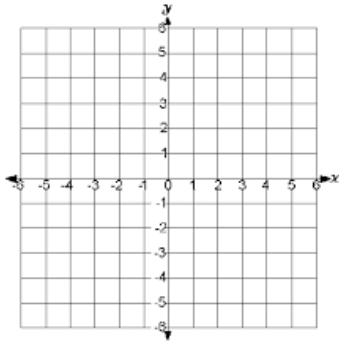
12.)  $y = -5$



domain: \_\_\_\_\_

range: \_\_\_\_\_

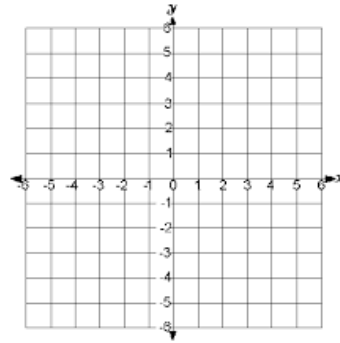
13.)  $y = -2|x - 3| + 1$



domain: \_\_\_\_\_

range: \_\_\_\_\_

14.)  $f(x) = |x + 3| - 5$



domain: \_\_\_\_\_

range: \_\_\_\_\_

Describe a reasonable domain and range for the following situations.

15.) Hector's service club is raising money by wrapping presents in the mall. The function  $f(x) = 3x$  describes the amount of money, in dollars, the club will earn for wrapping  $x$  presents. They only have enough wrapping paper to wrap 1000 presents.

domain:

range:

16.) The surface area of a cube can be found using the following formula:  $A = 6s^2$ , where  $A$  represents the surface area of the cube and  $s$  represents the length of one edge. Your geometry teacher wants you to draw a cube that has an edge length of at least 5 inches.

domain:

range: