

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: _____

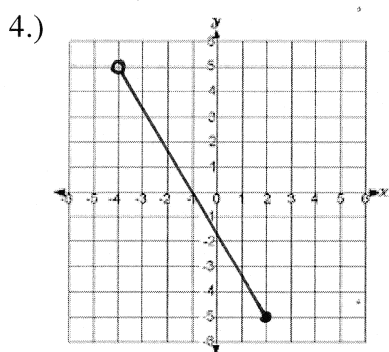
3.) domain: all real numbers

range: all real numbers

domain: _____

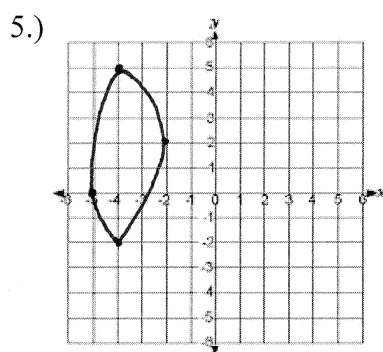
range: _____

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



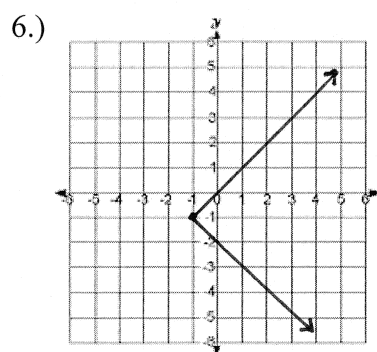
domain: _____

range: _____



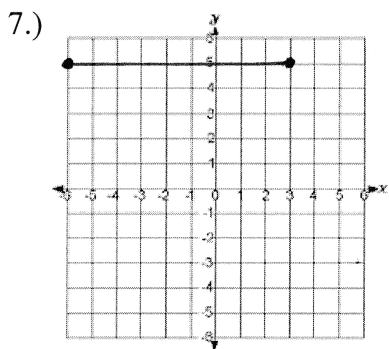
domain: _____

range: _____



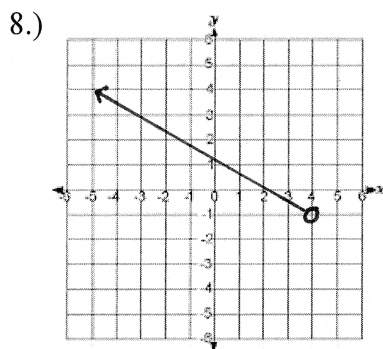
domain: _____

range: _____



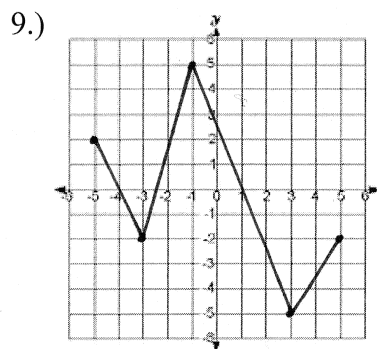
domain: _____

range: _____



domain: _____

range: _____

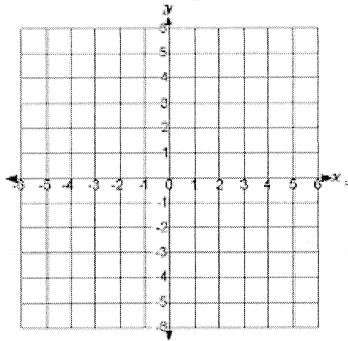


domain: _____

range: _____

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

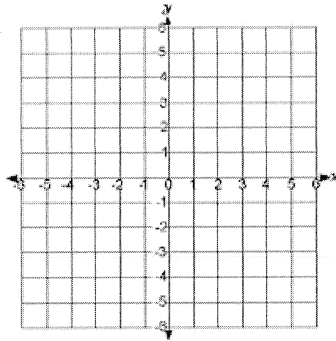
10.) $f(x) = -\frac{1}{3}x + 2$; for $x > 0$



domain: _____

range: _____

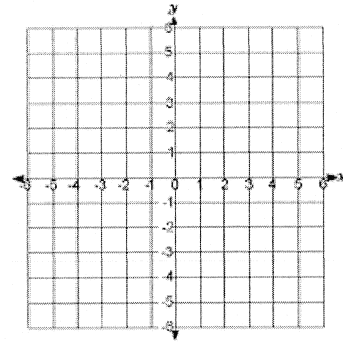
11.) $-3x - 4y = 12$



domain: _____

range: _____

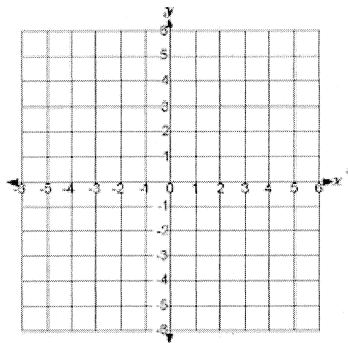
12.) $y = -5$



domain: _____

range: _____

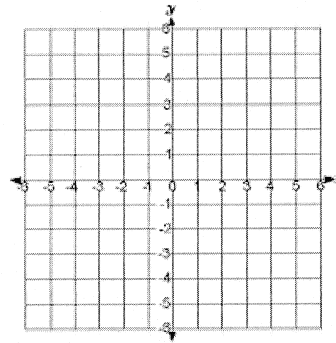
13.) $y = -2|x - 3| + 1$



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: