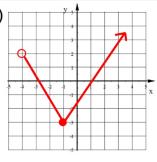
1. a)

	Χ	Υ
	-4	9
	4	-1
	7	4
	11	9

Function?

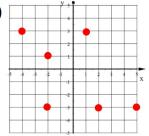


1. b)



Function?

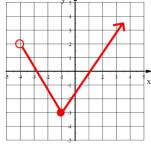
1. c)

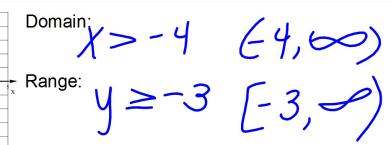


Function?

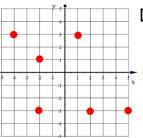
NO.

2. a)





2. b)



Domain:

Domain:
$$\{-4, -2, 1, 2, 5\}$$
Range: $\{-3, 1, 3\}$

- How do you say f(x)?
 - " f of x"
- f is the function name
- X is the Independent variable (the input)
- f(x) does NOT mean f times x
- f(x) = is just another way to write y =

3. Use these two functions:

$$f(x) = -2x^2 + 10$$
 $g(w) = 10 - 3w$

a) Find
$$f(-3)$$
 $= -2(-3)^2 + 10$
= -8

3. Use these two functions:

$$f(x) = -2x^2 + 10 \qquad g(w) = 10 - 3\underline{w}$$
b) Find w when $g(w) = 22$

$$19 = -8M$$
 $99 = 10 - 3M$

3. Use these two functions:

$$f(x) = -2x^2 + 10$$
 $g(w) = 10 - 3w$

c) Find 3f(2) - 5g(1)

$$f(2) = -2(2)^{2}_{+10}$$

$$= 2$$

$$3(2) - 5(7) = 6 - 35 = -29$$

Functions in Algebra 1:

Linear Functions:

EQ: y = mx + b

Graph: Line

Absolute Value Functions:

EQ: y = a|x - h| + k

Graph: V-Shape

Quadratic Functions:

EQ: $y = ax^2 + bx + c$

or

 $y = a(x - h)^2 + k$

Graph: Parabola

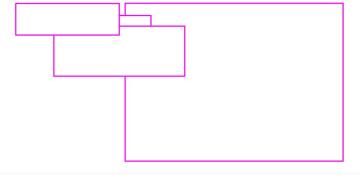
Sec. 5-3: Graphing Linear Functions

Slope-Intercept Form:

y = mx + b y-intercept $slope = \frac{rise}{run}$

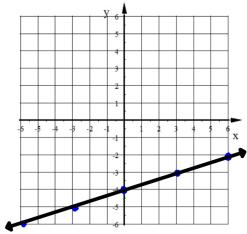
Steps to graph this eq:

- 1. Plot the y-int.
- 2. Use the slope to find more points.



Graph this line with at least 3 points.

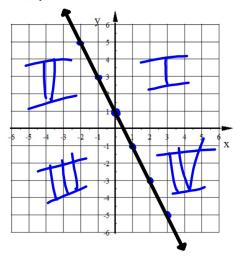
$$f(x) = \frac{1}{3}x - 4$$



Graph this line with at least 3 points.

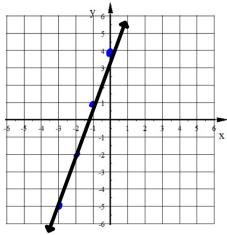
$$y = -\frac{2x}{1} + 1$$

$$-\frac{2}{1}$$



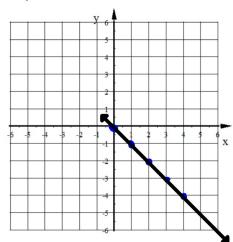
Graph this line with at least 3 points.

$$y = 3x + 4$$

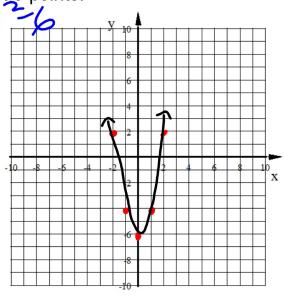


Graph this line with at least 3 points.

$$y = -x$$



Graph this function, use at least 5 points. $y = 2x^2 - 6$



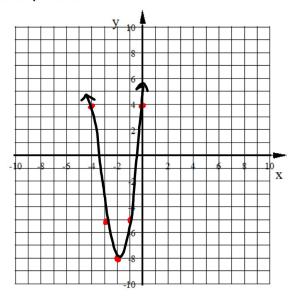
Graph this function, use at least 5 points.

$$y = 3x^{2} + 12x + 4$$

$$X \qquad 0$$

$$-1 \qquad -5$$

$$-3 \qquad -5$$



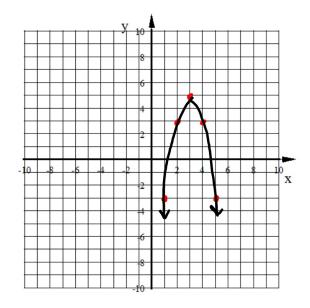
Graph this function, use at least 5 points.

$$y = -2(x-3)^{2} + 5$$

$$\frac{x}{1} + \frac{3}{3}$$

$$\frac{3}{5} + \frac{3}{5}$$

$$\frac{3}{5} + \frac{3}{5}$$



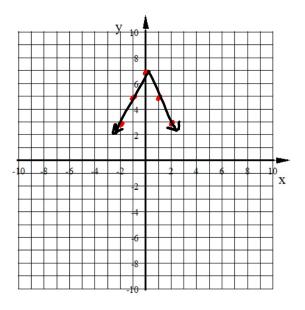
Graph this function, use at least 5 points.

$$f(x) = -2|x| + 7$$

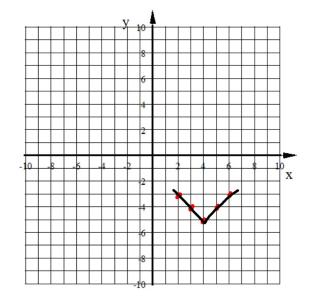
$$\frac{X}{2} = \frac{1}{2}$$

$$\frac{3}{2} = \frac{3}{2}$$

$$\frac{3}{2} = \frac{3}{2}$$

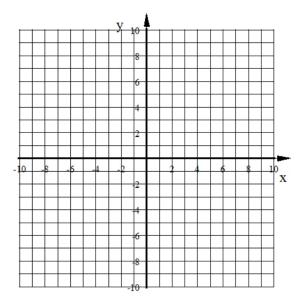


Graph this function, use at least 5 points.



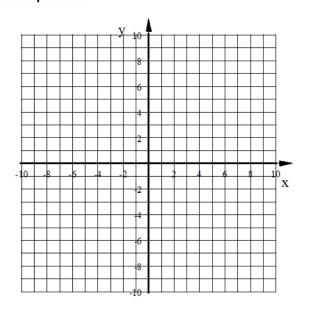
Graph this function, use at least 5 points.

$$y = \frac{1}{2}|x+1| + 3$$



Graph this function, use at least 5 points.

$$y = -3|x - 3| + 8$$



You can now finish Hwk #30

Sec 5-3

Use the practice worksheet I printed for you.

Pages 249-250

Problems 6, 7, 18, 19, 21, 23, 27, 37

IXL #11 - Q.1 & Q.2 due Friday at 4pm!