

h. Find x if $g(x) = 16$

i. Find x if $h(x) = -2$

j. Find x if $f(x) = 23$

2. Translate the following statements into coordinate points:

a. $f(-1) = 1$

b. $h(2) = 7$

c. $g(1) = -1$

d. $k(3) = 9$

Key

h. Find x if $g(x) = 16$

This is $y \dots$

$$16 = -3x + 1$$

$$\frac{15}{-3} = \frac{-3x}{-3}$$

$$x = -5$$

$$g(-5) = 16$$

$$-2 = \frac{12}{x}$$

$$h(-6) = -2$$

i. Find x if $h(x) = -2$

$$\frac{-2x}{-2} = \frac{12}{-2}$$

$$x = -6$$

j. Find x if $f(x) = 23$

$$23 = x^2 + 7$$

$$\sqrt{16} = \sqrt{x^2}$$

$$x = \pm 4$$

$$f(4) = 23$$

$$f(-4) = 23$$

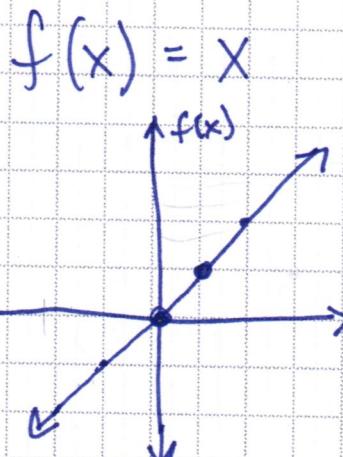
2. Translate the following statements into coordinate points:

a. $f(-1) = 1 \Rightarrow (-1, 1)$

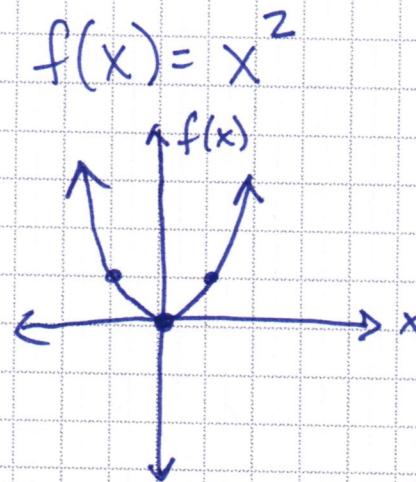
b. $h(2) = 7 \Rightarrow (2, 7)$

c. $g(1) = -1 \Rightarrow (1, -1)$

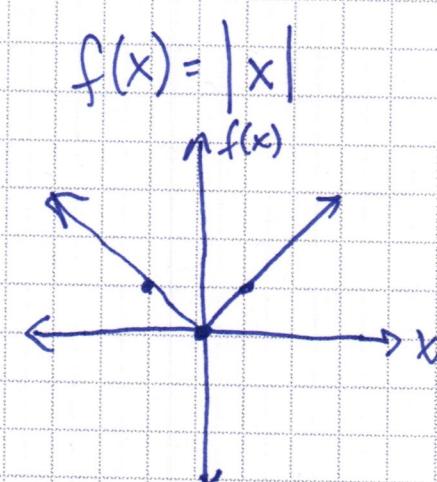
d. $k(3) = 9 \Rightarrow (3, 9)$



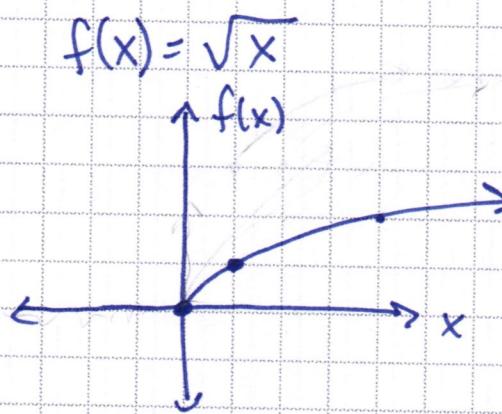
poss x-values: all #'s
poss y-values: all #'s



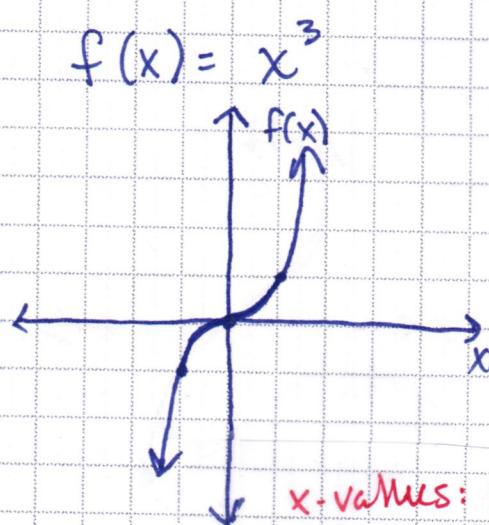
x-values: all #'s
y-values: all #'s ≥ 0



x-values: all #'s
y-values: all #'s ≥ 0



x-values: all $\# \geq 0$
y-values: all $\# \geq 0$



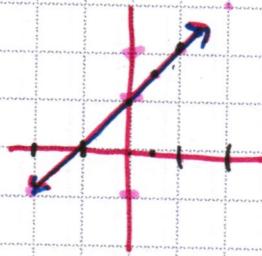
x-values: all #'s
y-values: all #'s

- ① What are the possible x-values for each graph?
- ② poss. y-values for each graph?

② I will understand
Domain & Range

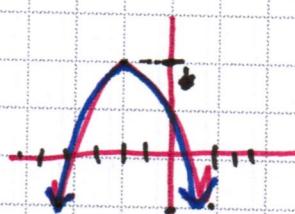
Domain \rightarrow possible x values

Range \rightarrow possible y values



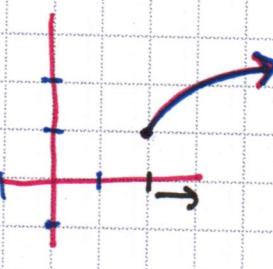
D: \mathbb{R} - all real #
 $-\infty \leq x \leq \infty$

R: \mathbb{R}
 $-\infty \leq y \leq \infty$



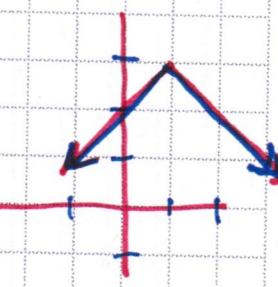
D: \mathbb{R}

R: $\mathbb{R} \leq 0$



D: $\mathbb{R} \geq 2$

R: $\mathbb{R} \geq 1$



D: \mathbb{R}

R: $\mathbb{R} \leq 3$

| | | | | |
|---|----|----|----|---|
| x | -3 | -2 | -1 | |
| y | 3 | 4 | 5 | 2 |

D: $\{-3, -2, 1\}$

R: $\{3, 4, 5, 2\}$

D: \mathbb{R}
R: \mathbb{R}