

2-1 Integers + Absolute Value

Integers - positive or negative whole #s including 0

negative # - $\# < 0$

positive # - $\# > 0$

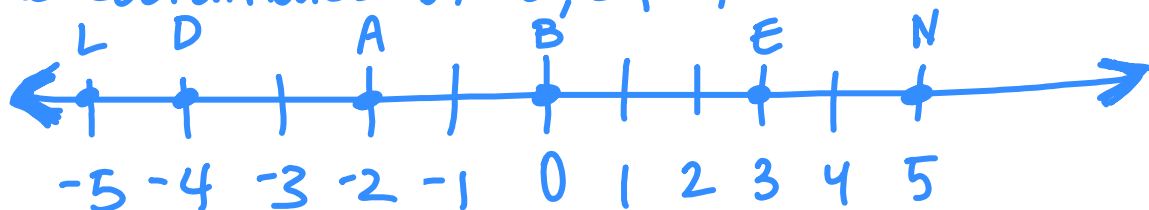
* 0 is neither (neutral) not + or -
coordinate - point on a # line

absolute value - how far away a # is from 0

| | symbol for abs. value

Ex 1

Name coordinates of D, B, L, and E.



$$D = -4$$

$$L = -5$$

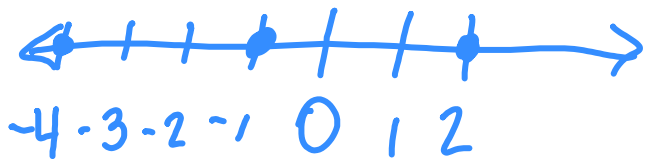
$$B = 0$$

$$E = 3$$

Ex 2

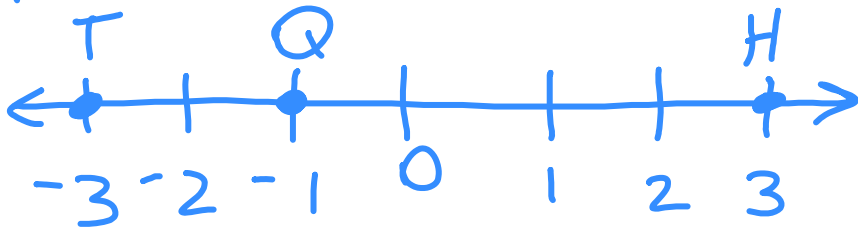
Graph the set of #'s.

a) $\{-4, -1, 2\}$



must put
point on # line
to graph

b) Graph points H, Q, and T if H has coordinate 3, Q has coordinate -1 and T has coordinate -3.



This means the opposite of

Find the absolute value.

a) $|-10| = 10$

c) $-|-2| = -2$

e) $-|-5| = -5$

b) $|100| = 100$

d) $|-2| = 2$

f) $-|25| = -25$

$$g) |5| + |-9|$$
$$5 + 9$$
$$\boxed{14}$$

$$h) \text{ Evaluate } |x| - 7 \text{ if } x = -13$$

$$|-13| - 7$$
$$13 - 7$$
$$\boxed{6}$$

$$i) a = 3 \quad b = 4 \quad c = -1$$

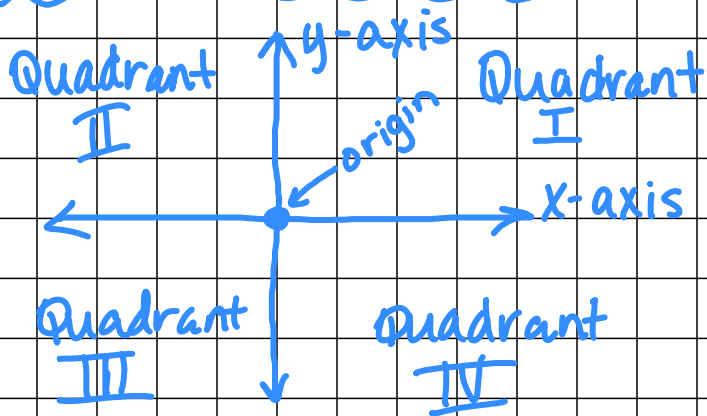
$$|a|b - |c|$$

$$|3|4 - |-1|$$

$$3 \cdot 4 - 1$$

$$12 - 1$$
$$\boxed{11}$$

2-2 Coordinate System



ordered pair - contains an x coordinate + y coordinate

is written (x, y)

"Go over to a friend's house + then up/down stairs to play."

*whole thing is coordinate system

*ALWAYS USE RULER TO CONNECT POINTS!!

