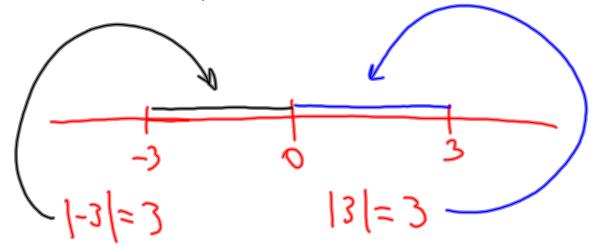
Absolute value

 $|\chi|$  - Positive distance from zero on a number line



$$|x| < y$$

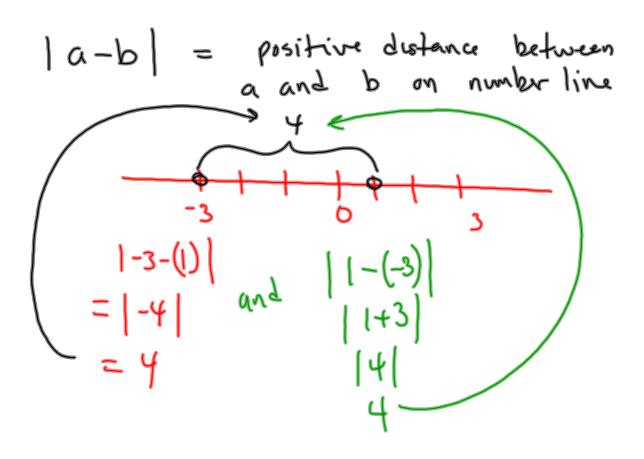
$$|x| < y$$

$$|x + 3| = 2$$

$$|x + 3| = 2$$

$$|x + 3| = 2$$

$$|x + 3| = 3$$



$$|X+2|=1$$
  
 $X+2=1$   
 $X=-1$   
 $X=-3$ 

if  $4x^2-6x+1<0$  and  $4x^2+|4x^2-6x+1|=3$  what is the value of x?

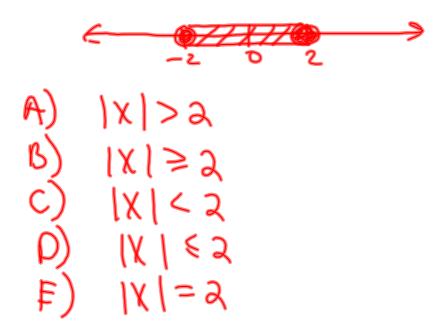
$$4x^{2} - (4x^{2} - 6x + 1) = 3$$
  
 $6x - 1 = 3$   
 $6x = 4$   
 $x = \frac{3}{3}$ 

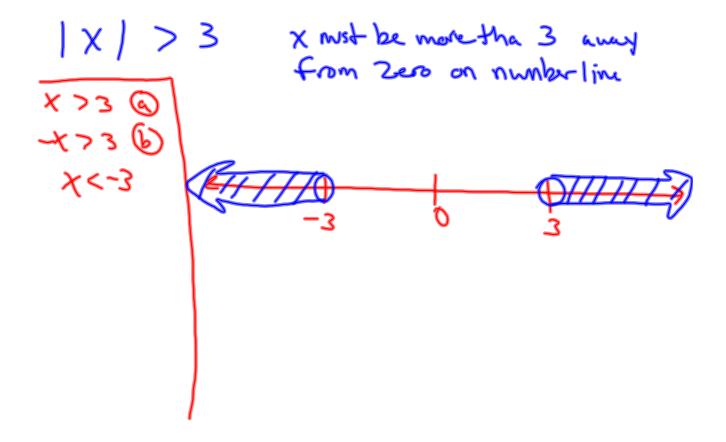
absolute values in inequalities

[X] < 6

X is within 6 from Zero on the number line

X < 6 @ -X < 6 @





A) 
$$|X+2| < 3$$
B)  $|X-2| < 3$ 
 $|X| < 3$ 
C)  $|X-3| < 2$ 
F)  $|X| < 5$ 

A) 
$$|X+2| < 3$$
B)  $|X-2| < 3$ 
C)  $|X-3| < 2$ 
E)  $|X+3| < 2$ 
B)  $|X+3| < 2$ 
B)  $|X+3| < 3$ 
C)  $|X+3| < 3$ 
E)  $|X| < 5$