

## Absolute Value Equations

- \*  $|x| = 7$  means how far from zero is  $x$
- \* Get absolute value by itself then make it equal to the both positive and negative of the answer.


Solve , check and graph each

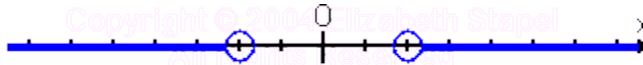
$$\text{Ex1) } |x + 3| = 12$$

$$\text{Ex2) } 3|2x - 7| - 5 = 4$$

$$\text{Ex3) } |x| = -4$$

- \* For Absolute Inequality - for the negative answer flip the inequality.

\*  $|x| <$  means AND 

\*  $|x| >$  means OR 

Solve , check and graph each

$$\text{Ex4) } |x| \geq 6$$

$$\text{Ex5) } |u| < 4$$

$$\text{Ex6) } |x + 5| \leq 2$$

$$\text{Ex7) } |-4x - 5| + 3 \geq 2$$

$$\text{Ex8) } -2|x - 3| + 2 > -7$$