ialities

Linear Inequalities

Quiz

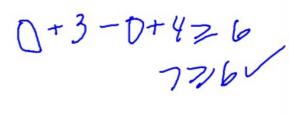
Solve. Graph the solution on a number line.

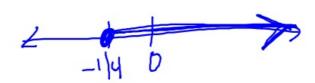
average

20/22:)

$$11x + 3 - 7x + 4 \ge 6$$

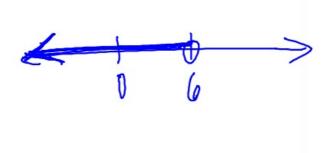
$$x \ge -1/4$$





$$3-2(x-4)>-1$$

 $3-2\times+8>-1$
 $-2\times>-12$
 $\times<6$



$$3(6x-1) \le 18-3x$$

Absolute Value Inequalities

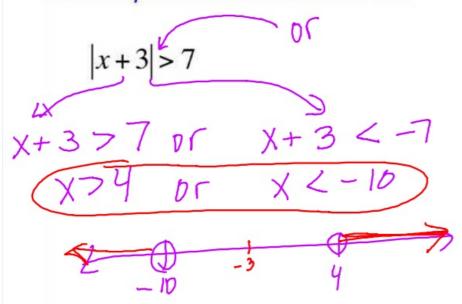
Solve. Graph the solution on a number line.

$$\begin{aligned} |x| &\leq 5 \\ |x - o| &\leq 5 \end{aligned}$$

All numbers that have a distance from zero of 5 or less.

$$\begin{array}{c} -5 & 5 \\ -5 & 5 \end{array}$$

$$-5 < X < 5 \leftarrow X < 5 \text{ and } X \leq 5 \end{array}$$



Solve. Graph the solution on a number line.

$$|x+5|-6 < -5$$

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$$9|1+8x|-3 \ge 78$$