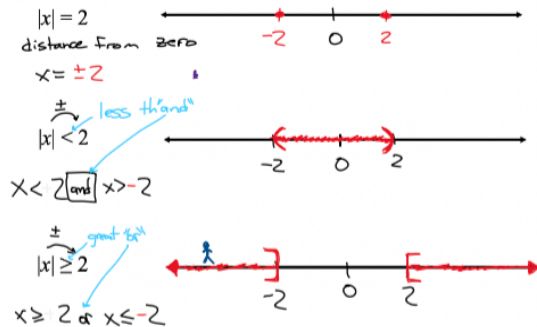


When solving, how do we undo an absolute value?

- 1) Get rid of stuff outside of the absolute value.
- 2) Check for legality.
- 3) Put $\pm$ on the other side.

Solve:



Solve. Graph inequality solutions on a number line using interval notation.

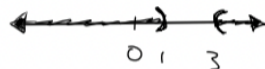
62. $|x| < 5$

$x < 5$ and $x > -5$



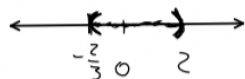
64. $|x - 2| > 1$

$x - 2 > +1$ or $x - 2 < -1$
 $+2$ $+2$ $+2$ $+2$
 $x > 3$ $x < 1$



70. $|3x - 2| < 4$

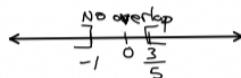
$3x - 2 < +4$ $3x - 2 > -4$
 $+2$ $+2$ $+2$ $+2$
 $3x < 6$ $3x > -2$
 3 3 3 3
 $x < 2$ and $x > -\frac{2}{3}$



74. $|5x + 1| \leq -4$

can't have negative distance

$\emptyset$



$5x + 1 \leq -4$ $5x + 1 \geq +4$
 $5x \leq -5$ $5x \geq 3$
 $x \leq -1$ and $x \geq \frac{3}{5}$