Model each with an inequality.

The minimum charge allowed to be able to use a credit card is $10.

$a \geq 10$

The ladder can reach a maximum of 20 feet up the wall.

$m \leq 20$

There was at least 8 inches of snow on the driveway.

$S \geq 8$

You should change the oil after no more than 5000 miles of driving.

$D \leq 5000$

Solve this inequality:

$$4k - 3(k + 2) \geq 5 + 8k - 2 - 7k$$

$4k - 3k - 6 \geq k + 3$

$k - 6 \geq k + 3$

$-3 \qquad -3$

$k - 9 \geq k$

$-k \qquad -k$

$-9 \geq 0$

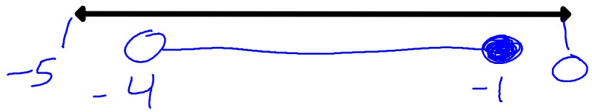
NO solution

Solve this equation for K

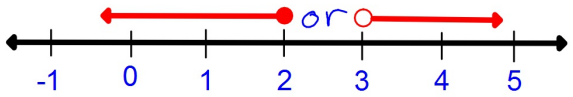
$$G \geq \frac{P - JK}{B} + CD$$

$$\frac{B(G - CD) - P}{-J} \leq K$$

Graph this inequality: $m > -4$ and $m \leq -1$



Write the inequality that models this graph:



$x \leq 2$ or $x > 3$

Solve this inequality:

$9 - 2k > 13$ or $5k - 10 + k > 29$

$-9 \quad -9$

$\frac{-2k > +4}{-2 \quad -2}$

$k < -2$

$6k - 10 > 29$

$+10 \quad +10$

$\frac{6k > 39}{6 \quad 6}$

$k > 6.5$

$k < -2$ or $k > 6.5$