

Algebra 1 Bellwork 6th hour Friday, November 20, 2015

Find the exact solution to each inequality and graph your solution

1. $9 + r - 25 \leq 5r$

2. $7 - 5c + 4 + 2c > 40$

Sol:

Sol:

Graph:

Graph:

3. $9 - \frac{p}{5} - 11 < -7$

Sol:

Graph:

4. Solve. $6w - 2(2w - 2) - 10 \leq 1 + 2w - 8$

Sol:

Algebra 1 Bellwork 6th hour Friday, November 20, 2015

Find the exact solution to each inequality and graph your solution

1. $9 + r - 25 \leq 5r$

$$\begin{aligned} 9 - 25 &\leq 4r \\ -16 &\leq 4r \\ \frac{-16}{4} &\leq \frac{4r}{4} \end{aligned}$$

Sol:

$-4 \leq r \rightarrow r \geq -4$

Graph:



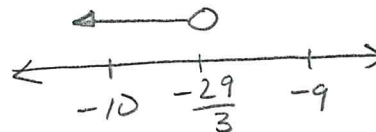
2. $7 - 5c + 4 + 2c > 40$

$$\begin{aligned} 7 - 5c + 4 + 2c &> 40 \\ -3c + 11 &> 40 \end{aligned}$$

Sol:

$c < -\frac{29}{3}$

Graph:



$$\begin{aligned} -3c + 11 &> 40 \\ -3c &> 29 \\ \frac{-3c}{-3} &> \frac{29}{-3} \\ c &< -\frac{29}{3} \end{aligned}$$

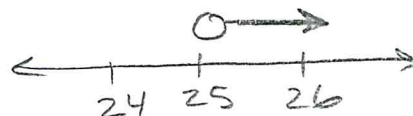
3. $9 - \frac{p}{5} - 11 < -7$

$$\begin{aligned} -2 - \frac{p}{5} &< -7 \\ +2 &+2 \end{aligned}$$

Sol:

$p > 25$

Graph:



4. Solve. $6w - 2(2w - 2) - 10 \leq 1 + 2w - 8$

$$6w - 4w + 4 - 10 \leq 1 + 2w - 8$$

Sol:

$$\begin{aligned} -2w - 6 &\leq 2w - 7 \\ -2w &-2w \end{aligned}$$

NO SOLUTION

$-6 \leq -7$ NOT TRUE