

hw # 35 - standard 22 - Solve Compound Inequalities filled in

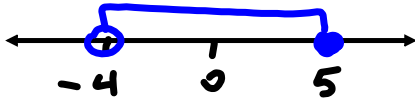
Name: Key Show work needed to justify your answer. Date: _____

HW # 35: Algebra 1 - Standard 22 - Solve Compound Inequalities

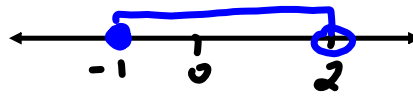
5 points

Solve each compound inequality. Then graph the solution set.

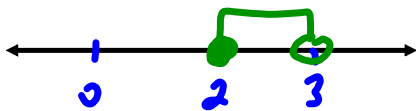
5. $-5 < 3p + 7 \leq 22$
 $\begin{array}{r} -7 \quad -7 \quad -7 \\ -12 < 3p \leq 15 \\ \hline -4 < p \leq 5 \end{array}$



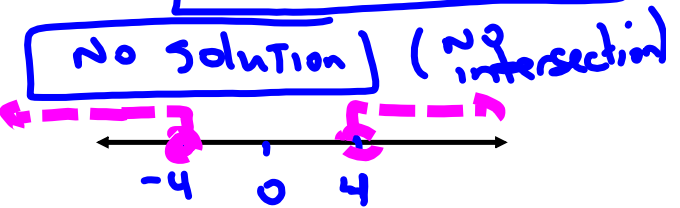
6. $-3 \leq 7c + 4 < 18$
 $\begin{array}{r} -4 \quad -4 \quad -4 \\ -7 \leq 7c < 14 \\ \hline -1 \leq c < 2 \end{array}$



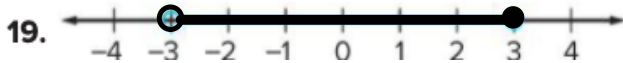
7. $5h - 4 \geq 6$ and $7h + 11 < 32$
 $\begin{array}{r} +4 \quad +4 \quad -11 \quad -11 \\ 5h \geq 10 \text{ and } 7h < 21 \\ \hline h \geq 2 \text{ and } h < 3 \end{array}$



10. $-4a + 13 \geq 29$ and $10 < 6a - 14$
 $\begin{array}{r} -13 \quad -13 \quad +14 \quad +14 \\ -4a \geq 16 \text{ and } 24 < 6a \\ \hline a \leq -4 \text{ and } 4 < a \end{array}$



Write a compound inequality that describes each graph.



$-3 < x \leq 3$



$1 \leq x \leq 4$



$-2 < x < 3$