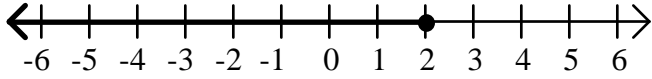


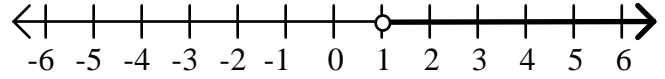
## Algebra I Worksheet #6 Unit 4 selected solutions

Solve each of the following. Graph the solution set on the number line provided.

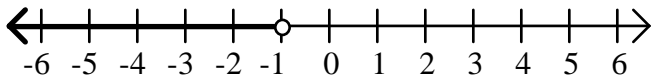
$$\begin{aligned} 2. \quad -3x + 1 &\geq -5 \\ -3x &\geq -6 \\ x &\leq 2 \end{aligned}$$



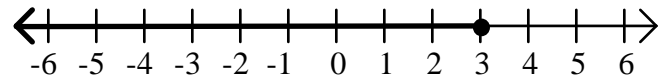
$$\begin{aligned} 4. \quad -2x - 3 &< -5 \\ -2x &< -2 \\ x &> 1 \end{aligned}$$



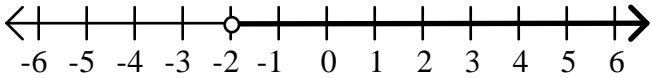
$$\begin{aligned} 6. \quad 4x + 5 &< 1 \\ 4x &< -4 \\ x &< -1 \end{aligned}$$



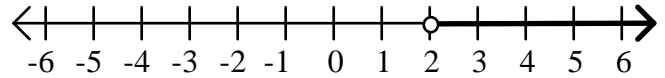
$$\begin{aligned} 10. \quad -6x + 1 &\geq -4x - 5 \\ -2x + 1 &\geq -5 \\ -2x &\geq -6 \\ x &\leq 3 \end{aligned}$$



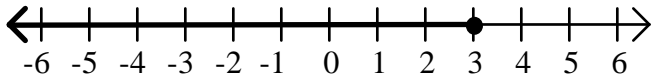
$$\begin{aligned} 12. \quad 5(2x + 1) &> 3(2x - 1) \\ 10x + 5 &> 6x - 3 \\ 4x + 5 &> -3 \\ 4x &> -8 \\ x &> -2 \end{aligned}$$



$$\begin{aligned} 14. \quad 4(3x + 5) &< 15x + 14 \\ 12x + 20 &< 15x + 14 \\ -3x + 20 &< 14 \\ -3x &< -6 \\ x &> 2 \end{aligned}$$



$$\begin{aligned} 16. \quad 4(3x + 2) + 3(2x + 1) &\leq 65 \\ 12x + 8 + 6x + 3 &\leq 65 \\ 18x + 11 &\leq 65 \\ 18x &\leq 54 \\ x &\leq 3 \end{aligned}$$



$$\begin{aligned} 18. \quad 6(2x + 5) - 7(3x + 2) &\geq -11 \\ 12x + 30 - 21x - 14 &\geq -11 \\ -9x + 16 &\geq -11 \\ -9x &\geq -27 \\ x &\leq 3 \end{aligned}$$

