Solve & Graph Compound Inequalities

1. Solve each compound inequality for x, and graph the solution on a number line.

$a)\ x + 6 < 8$ and $x - 1 > -1$

$b)\ -1 \leq 3 - 2x \leq 10$

$c)\ 5x + 1 < 0$ or $8 \leq x - 5$

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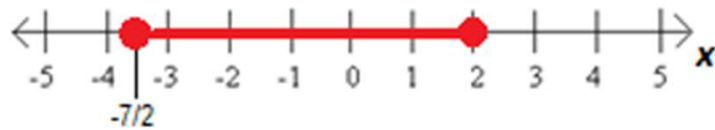
$a)$ $x + 6 < 8$ and $x - 1 > -1$

$\quad$ $x < 2$ and $x > 0$

$\quad$ $\rightarrow$ $\;0 < x < 2$

$b)$ $-1 \leq 3 - 2x \leq 10$

$\quad$ $x \geq -\dfrac{7}{2}$ and $x \leq 2$

$\quad$ $\rightarrow$ $-\dfrac{7}{2} \leq x \leq 2$

$c)$ $5x + 1 < 0$ or $8 \leq x - 5$

$\quad$ $x < -\dfrac{1}{5}$ or $x \geq 13$
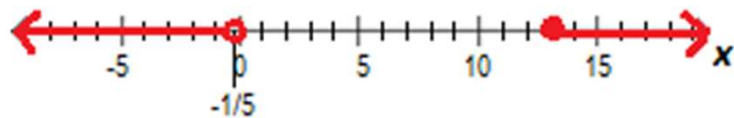
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