Solve & Graph Compound Inequalities

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

a) $5x + 2 \geq 27$ *and* $3x - 1 < 29$

b) $0 \leq 4x - 3 \leq 11$
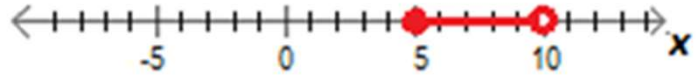
c) $2x > 8$ or $-2x < 4$

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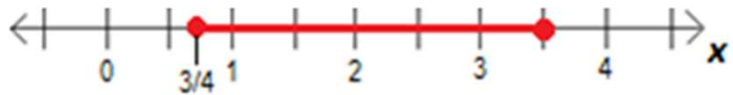
a) $5x + 2 \geq 27$ *and* $3x - 1 < 29$

$x \geq 5$ and $x < 10$ → $5 \leq x < 10$

b) $0 \leq 4x - 3 \leq 11$

$\dfrac{3}{4} \leq x \leq \dfrac{7}{2}$

c) $2x > 8$ or $-2x < 4$

$x > 4$ *or* $x > -2$

→ $x > -2$