Solve & Graph Compound Inequalities

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

$a)$ $1 + x > -4$ or $3x - 6 > -12$

$b)$ $1 + x > -4$ or $3x - 6 < -12$

c) $1 + x > 4$ and $3x - 6 < -12$

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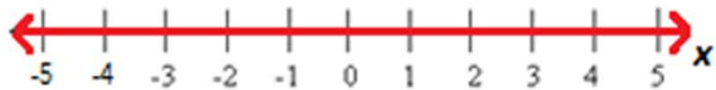1. Solve each compound inequality for x, and graph the solution on a number line.

a) $1 + x > -4$ or $3x - 6 > -12$

$x > -5$

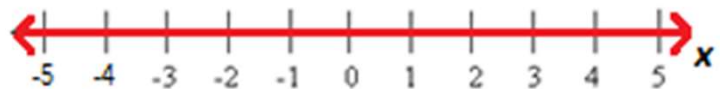b) $1 + x > -4$ or $3x - 6 < -12$

x can be any real number.

c) $1 + x > 4$ and $3x - 6 < -12$

$x > 3$ and $x < -2$

No solution (empty set) since there are no numbers that satisfy both statements