Lesson 2: The Graph of a Linear Inequality

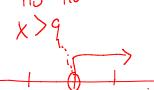
A linear inequality is of the form 2x + 5 < 15 and does not include an equal sign. A solution to a linear inequality is the set of numbers that satisfy the inequality. Each inequality below is followed by a list of numbers. Determine which numbers are solutions of the inequality.

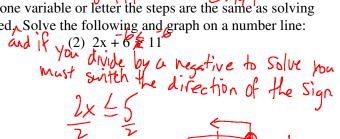
- a) 3x 14 < 16

b) 4x + 12 > 14

To graph a linear inequality with one variable or letter the steps are the same as solving equations but the solution must be graphed. Solve the following and graph on a number line:

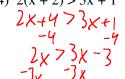
1) x - 10 > -1+10 10





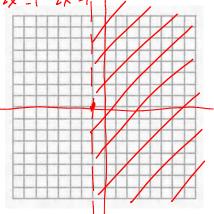
3) 4y - 2 < 6y - 16





We can also graph the solution on a coordinate plane. Solve the following:

1) 3x + 1 > 2x-2x - 1 - 2x



(2) 5x - 2 < 8

