Algebra 1
Unit 3, Lesson 2 Notes
Solving Inequalities with Variables on Both Sides

Solving and Graphing Inequalities in One Variable

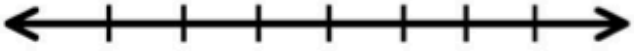
The Golden Rule of Inequalities

1.
2.
3.
4.
5.

Open Circle
Closed Circle

Example: Solve and Graph

$5 - 3x \leq 13 + x$



Examples: Solve and graph.

1) $4 - 2m > 7 - 3m$ 2) $-10p > 6p - 8$ 3) $8n - 2 > 17n + 9$

4) $-\frac{2}{3}d - 2 < \frac{1}{3}d + 8$ 5) $3(S - 4) \geq 2(S - 6)$

What about these? Solve and graph if possible.

$-6(1 + 7x) + 7(1 + 6x) \leq -2$	$-2(5 + 6x) < 6(8 - 2x)$

A few more…

1) $3p - 5 > 2p + p - 7$ 2) $6(x + 3) < 5x + 18 + x$