Section 3.4 Solving Inequalities Using Addition and Subtraction

Goal: to use inverse operations to solve equations.

inequality:

Graph to show all solutions.

$$X < 5 \longleftrightarrow 10.9.8.7.6.5.4.3.2.1.0.1.2.3.4.5.6.7.8.9.10$$

$$x \ge -3 \xrightarrow[-10.9]{0.5} \xrightarrow[-7.6]{0.5} \xrightarrow[-4.3]{0.1} \xrightarrow[-2.3]{0.1} \xrightarrow[-2.3]{$$

Write the inequality





$$X \leq 3$$

3.4.notebook October 31, 2017

Addition and Subtraction Properties of Inequality

if a < b, then a + c < b + cif a < b, then a - c < b - c

Solve and graph:

On the first two tests in math class, Collin had scores of 89 and 95 points. The third math test is tomorrow and Collin's goal is to have a total score of 279 or higher on the three test scores in order to have and A average. What possible scores can he have to make this happen?

$$X + 89 + 95 \ge 279$$

 $X + 184 \ge 279$
 $-184 - 184$
 $X \ge 95$

Hwk: pg. 142- 144 #3 - 6, 12 - 38 evens, 39 - 42 all