SM2 Lesson 1-4: Properties

Addition Property of Inequality: adding the same number left and right of the "<, >, \leq , or \geq " symbol will result in an equivalent inequality. x - 4 > 7+4 +4 x > 11

Subtraction Property of Inequality: subtracting the same number left and right of the "<, >, \leq , or \geq " symbol will result in an equivalent inequality. $x + 5 \leq 2$ -5 -5 $x \leq -3$

Multiplication Property of Inequality: multiplying the same positive number left and right of the "<, >, \leq , or \geq " symbol will result in an equivalent inequality. We reverse the direction of <, >, \geq , and \leq if the factor is negative. $-2x \geq 6$

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$$\left(-\frac{1}{2}\right)$$
 ÷ -2

$$x \le -3$$