

My objective is To use the properties of equality to solve equations with variables on each side that have rational coefficients

Check

Solve $10 - 3x = -5 + 2x$.

$$10 = -5 + 2x +$$

$$10 = -5 +$$

$$10 + =$$

$$15 = 5x$$

$$\frac{15}{5} = x$$

$$= x$$

Check:

$$10 - 3x = -5 + 2x$$

$$10 - 3() = -5 + 2()$$

$$10 - = -5 +$$

$$1 =$$