

$$2 + 3 \neq 6$$

$$3x - 2 = 4$$

$$2x + 3x = 5x$$

$$x = 3$$

$$2 \cdot 3 + 3 \cdot 3 = 5 \cdot 3$$

$$6 + 9 = 15$$

$$15 = 15$$

$$x = -5$$

$$2 \cdot (-5) + 3 \cdot (-5) = 5 \cdot (-5)$$

$$-10 - 15 = -25$$

$$-25 = -25$$

$$x = 6$$

$$2 \cdot 6 + 3 \cdot 6 = 5 \cdot 6$$

$$12 + 18 = 30$$

$$30 = 30$$

$$3x - 2 = 4$$

$$x = -3$$

$$3(-3) - 2 = 4$$

$$-9 - 2 = 4$$

$$-11 = 4$$

$$x = 4$$

$$3 \cdot 4 - 2 = 4$$

$$12 - 2 = 4$$

$$10 = 4$$

$$x = 2$$

$$3 \cdot 2 - 2 = 4$$

$$6 - 2 = 4$$

$$4 = 4$$

$$3x - 2x = 1$$