

# LINEAR EQUATIONS

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$$1) \quad 3x - 7 = 20$$

$$3x = 20 + 7$$

$$3x = 27$$

$$x = \frac{27}{3}$$

$$x = 9$$

$$4) \quad 4x + 20 = 6 - 3x$$

$$4x + 3x = 6 - 20$$

$$7x = -14$$

$$x = \frac{-14}{7}$$

$$x = -2$$

$$2) \quad 5x + 23 = 8$$

$$5x = 8 - 23$$

$$5x = -15$$

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

$$x = -3$$

$$5) \quad 3(x - 7) = 9$$

$$3x - 21 = 9$$

$$3x = 9 + 21$$

$$3x = 30$$

$$x = \frac{30}{3}$$

$$x = 10$$

$$3) \quad 5x - 7 = 3x + 11$$

$$5x - 3x = 11 + 7$$

$$2x = 18$$

$$x = \frac{18}{2}$$

$$x = 9$$

$$6) \quad 4(2x + 8) = 8$$

$$8x + 32 = 8$$

$$8x = 8 - 32$$

$$8x = -24$$

$$x = \frac{-24}{8}$$

$$x = -3$$