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Opgave 022

$$a) -4x - (-10 + 8x) = (8 - 16x) - (14 - 6x)$$

$$-4x + 10 - 8x = 8 - 16x - 14 + 6x$$

$$-4x - 8x + 16x - 6x = 8 - 14 - 10$$

$$-2x = -16 \quad |: -2$$

$$x = 8$$

$$b) 15 + (2x - 5) \cdot 9 = 5 \cdot (2x + 7) + 12 + 3$$

$$15 + 18x - 45 = 10x + 35 + 12 + 3$$

$$18x - 10x = -15 + 45 + 35 + 12 + 3$$

$$8x = 80 \quad |: 8$$

$$x = 10$$

$$c) 3x - 12 = 5 \cdot (x - 3) \cdot (7 - 2x) - 7$$

$$3x - 12 = 5 \cdot (x - 21 - 6x - 7)$$

$$3x - 12 = 5 \cdot (-5x - 28)$$

$$3x - 12 = -25x - 140$$

$$3x + 25x = -140 + 12$$

$$28x = -128 \quad |: 28$$

$$x = -4$$