

ZADACÁ (28.4.)

1. Rijési jednadžbe:

a) $4 - (3x - 5) = 15$

$$4 - (3x - 5) = 15$$

$$4 - 3x + 5 = 15$$

$$-3x = 15 - 4 - 5$$

$$-3x = 6 \quad | : (-3)$$

$$\boxed{x = -2}$$

b) $2y + (5 - 4y) = 3y$

$$2y + (5 - 4y) = 3y$$

$$2y + 5 - 4y = 3y$$

$$2y - 4y - 3y = -5$$

$$-5y = -5 \quad | : (-5)$$

$$\boxed{y = 1}$$

c) $(4x + 8) + (8x + 4) = (8 - 4x) - (4 - 8x)$

$$(4x + 8) + (8x + 4) = (8 - 4x) - (4 - 8x)$$

$$4x + 8 + 8x + 4 = 8 - 4x - 4 + 8x$$

$$4x + 8x + 4x - 8x = 8 - 4 - 8 - 4$$

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

$$\boxed{x = -1}$$

d) $8 - (4x - 9) - 2x = -(5 - 3x) + 7$

$$8 - (4x - 9) - 2x = -(5 - 3x) + 7$$

$$8 - 4x + 9 - 2x = -5 + 3x + 7$$

$$-4x - 2x - 3x = -5 + 7 - 8 - 9$$

$$-9x = -15 \quad | : (-9)$$

$$x = \frac{15}{9}$$

$$\boxed{x = \frac{5}{3}}$$

2. (ZA ONE KOJI ŽELE ZNATI VIŠE): Rijési jednadžbe:

a) $[5x + (8 + 3x) - 19] - 1 = 1 - [-2x + (7x - 65)]$

$$[5x + (8 + 3x) - 19] - 1 = 1 - [-2x + (7x - 65)]$$

$$[5x + 8 + 3x - 19] - 1 = 1 - [-2x + 7x - 65]$$

$$5x + 8 + 3x - 19 - 1 = 1 + 2x - 7x + 65$$

$$5x + 3x - 2x + 7x = 1 + 65 - 8 + 19 + 1$$

$$13x = 78 \quad | : 13$$

$$\boxed{x = 6}$$

b) $5y - \{6y - [7y - (8y - 9y)]\} = 49$

$$5y - \{6y - [7y - (8y - 9y)]\} = 49$$

$$5y - \{6y - [7y - 8y + 9y]\} = 49$$

$$5y - \{6y - 7y + 8y - 9y\} = 49$$

$$5y - 6y + 7y - 8y + 9y = 49$$

$$7y = 49 \quad | : 7$$

$$\boxed{y = 7}$$

c) $-5 - \{[(2a + 1) - (4a - 1)] - 3\} = 49$

$$-5 - \{[(2a + 1) - (4a - 1)] - 3\} = 49$$

$$-5 - \{2a + 1 - 4a + 1 - 3\} = 49$$

$$-5 - \{2a + 1 - 4a + 1 - 3\} = 49$$

$$-5 - 2a - 1 + 4a - 1 + 3 = 49$$

$$-2a + 4a - 4a = 5 + 1 + 1 - 3$$

$$-2a = 4 \quad | : (-2)$$

$$\boxed{a = -2}$$