

KOTITEHTÄVÄT 516,517

516.

$$\text{a) } \frac{x-8}{3} = 2 \quad || \cdot 3$$

$$x-8 = 6 \quad || +8$$

$$x = 14$$

$$\text{b) } 3a = \frac{a+14}{5} \quad || \cdot 5$$

$$15a = a+14 \quad || -a$$

$$14a = 14 \quad || : 14$$

$$a = \frac{14}{14} = 1$$

$$\text{c) } \frac{2y+3}{6} = 3 \quad || \cdot 6$$

$$2y+3 = 18 \quad || -3$$

$$2y = 15 \quad || : 2$$

$$y = \frac{15}{2} = 7,5$$

$$\text{d) } \frac{y+3}{4} = 2 \quad || \cdot 4$$

$$y+3 = 8 \quad || -3$$

$$y = 5$$

517.

$$\text{a) } \frac{2x+7}{3} = 1 \quad || \cdot 3$$

$$2x+7 = 3 \quad || -7$$

$$2x = -4 \quad || : 2$$

$$x = -2$$

$$\text{b) } \frac{x+2}{7} = -4 \quad || \cdot 7$$

$$x+2 = -28 \quad || -2$$

$$x = -30$$

$$\text{c) } \frac{4-2x}{6} = \frac{x}{3} \quad || \text{ker rotaan ristiin}$$

$$3(4-2x) = 6x$$

$$12-6x = 6x \quad || -12$$

$$-6x = 6x-12 \quad || -6x$$

$$-12x = -12 \quad || : (-12)$$

$$x = 1$$

$$\text{d) } \frac{3y+1}{8} = \frac{y}{4} \quad \parallel \text{ ker } \textit{rotaan ristiin}$$

$$4(3y+1) = 8y$$

$$12y + 4 = 8y \quad \parallel -4$$

$$12y = 8y - 4 \quad \parallel -8y$$

$$4y = -4 \quad \parallel : 4$$

$$y = -1$$