

s.91

472

$$a) 5x + 2 = 3x + 12 \quad \parallel -3x$$

$$5x + 2 - 3x = 3x + 12 - 3x$$

$$2x + 2 = 12 \quad \parallel -2$$

$$2x + 2 - 2 = 12 - 2$$

$$\frac{2x}{2} = \frac{10}{2} \quad \parallel :2$$

$$x = 5$$

pitkä
matka

$$b) 9y + 11 = 2y + 25 \quad \parallel -2y$$

$$7y + 11 = 25 \quad \parallel -11$$

$$\frac{7y}{7} = \frac{14}{7} \quad \parallel :7$$

$$y = 2$$

lyhyt
matka

$$c) 11y - 37 = 6y - 2 \quad \parallel -6y$$

$$5y - 37 = -2 \quad \parallel +37$$

$$\frac{5y}{5} = \frac{35}{5} \quad \parallel :5$$

$$y = 7$$

$$d) \quad \overset{5x}{\cancel{6x}} - 8 = \overset{0}{\cancel{x}} + 17 \quad || -x$$

$$5x - \overset{0}{\cancel{8}} = \overset{25}{\cancel{17}} \quad || + 8$$

$$\frac{5x}{5} = \frac{25}{5} \quad || : 5$$

$$x = 5$$

473

$$a) \quad \overset{8y}{\cancel{12y}} - 5 = \overset{0}{\cancel{4y}} + 35 \quad || -4y$$

$$8y - \overset{0}{\cancel{5}} = \overset{40}{\cancel{35}} \quad || + 5$$

$$\frac{8y}{8} = \frac{40}{8} \quad || : 8$$

$$y = 5$$

$$b) \quad \overset{5x}{\cancel{7x}} - 9 = \overset{0}{\cancel{2x}} + 11 \quad || -2x$$

$$5x - \overset{0}{\cancel{9}} = \overset{20}{\cancel{11}} \quad || + 9$$

$$\frac{5x}{5} = \frac{20}{5} \quad || : 5$$

$$x = 4$$

$$c) \quad \cancel{9x}^{\circ 6x} - 2 = \cancel{3x}^{\circ} + 10 \quad \parallel -3x$$

$$6x - \cancel{2}^{\circ} = \cancel{10}^{\circ 12} \quad \parallel +2$$

$$\frac{6x}{6} = \frac{12}{6} \quad \parallel :6$$

$$x = 2$$

$$d) \quad \cancel{5x}^{\circ} - 10 = \cancel{5x}^{\circ} \quad \parallel -5x$$

$$-10 = 0$$

epätosi $\rightarrow$ ei ratkaisua!

$$\text{esim.} \quad 2x = 2x \quad \parallel -2x$$

$$0 = 0$$

tosi $\rightarrow$ ratkaisuna kaikki luvut!