

T4 YHTÄLÖ

471.

a) $6x = 8x - 4 \quad || -8x$

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

$$x = 2$$

b) $8x = 5x + 18 \quad || -5x$

$$3x = 18 \quad || :3$$

$$x = 6$$

c) $7x - 3 = 5x - 3 \quad || -5x$

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

$$2x = 0 \quad || :2$$

$$x = 0$$

d) $3x + 1 = 5x - 13 \quad || -5x$

$$-2x + 1 = -13 \quad || -1$$

$$-2x = -14 \quad || :(-2)$$

$$x = \frac{-14}{-2} = 7$$

472.

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

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

$$2x = 10 \quad || :2$$

$$x = 5$$

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

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

$$7y = 14 \quad || :7$$

$$y = 2$$

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

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

$$5y = 35 \quad || :5$$

$$y = 7$$

d) $6x - 8 = x + 17 \quad || -x$

$$5x - 8 = 17 \quad || +8$$

$$5x = 25 \quad || :5$$

$$x = 5$$

473.

$$\text{a) } 12y - 5 = 4y + 35 \quad || \quad -4y$$

$$8y - 5 = 35 \quad || \quad +5$$

$$8y = 40 \quad || \quad : 8$$

$$y = 5$$

$$\text{b) } 7x - 9 = 2x + 11 \quad || \quad -2x$$

$$5x - 9 = 11 \quad || \quad +9$$

$$5x = 20 \quad || \quad : 5$$

$$x = 4$$

$$\text{c) } 9x - 2 = 3x + 10 \quad || \quad -3x$$

$$6x - 2 = 10 \quad || \quad +2$$

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

$$x = 2$$

$$\text{d) } 5x - 10 = 5x \quad || \quad -5x$$

$$-10 = 0$$

ei ole ratkaisua.