

$$\begin{aligned} 1. \quad 3x - 8 &= 10 - 6x && | + 6x \\ 9x - 8 &= 10 && | + 8 \\ 9x &= 18 && | : 9 \\ \underline{\underline{x}} &= \underline{\underline{2}} \end{aligned}$$

$$\begin{aligned} 2. \quad 0,5x + 1 &= 5x - 8 && | - 0,5x \\ 1 &= 4,5x - 8 && | + 8 \\ 9 &= 4,5x && | : 4,5 \\ \underline{\underline{2}} &= \underline{\underline{x}} \end{aligned}$$

$$\begin{aligned} 3. \quad 10 - 2x - 3x &= 10x - 4 - 1 \\ 10 - 5x &= 10x - 5 && | + 5x \\ 10 &= 15x - 5 && | + 5 \\ 15 &= 15x && | : 15 \\ \underline{\underline{1}} &= \underline{\underline{x}} \end{aligned}$$

$$\begin{aligned} 4. \quad 2x - x + 12 &= 2 + 1 - 2x \\ x + 12 &= 3 - 2x && | + 2x \\ 3x + 12 &= 3 && | - 12 \\ 3x &= -9 && | : 3 \\ \underline{\underline{x}} &= \underline{\underline{-3}} \end{aligned}$$

$$\begin{aligned} \underline{5.} \quad 0,1x - 8 &= 4 - 0,1x && | +0,1x \\ 0,2x - 8 &= 4 && | +8 \\ 0,2x &= 12 && | :0,2 \\ \underline{\underline{x}} &= \underline{\underline{60}} \end{aligned}$$

$$\begin{aligned} \underline{6.} \quad 20 + 20x &= 10x - 10 && | -10x \\ 20 + 10x &= -10 && | -20 \\ 10x &= -30 && | :10 \\ \underline{\underline{x}} &= \underline{\underline{-3}} \end{aligned}$$

$$\begin{aligned} \underline{7.} \quad x - 3x &= 1 + 3 \\ -2x &= 4 && | +2x \\ 0 &= 2x + 4 && | -4 \\ -4 &= 2x && | :2 \\ \underline{\underline{-2}} &= \underline{\underline{x}} \end{aligned}$$

$$\begin{aligned} \underline{8.} \quad 2x - 3 + 4x &= 5 + 6x - 8 \\ 6x - 3 &= 6x - 3 && | -6x \\ \underline{\underline{-3}} &= \underline{\underline{-3}} \\ \underline{\underline{L}} &= \underline{\underline{G}} \end{aligned}$$

9.

$$-8 - 16x = 0$$

$$| + 16x$$

$$-8 = 16x$$

$$| : 16$$

$$\underline{\underline{-0,5 = x}}$$

10.

$$x + 2x + 3x = 4 + 5 + 6$$

$$6x = 15$$

$$| : 6$$

$$\underline{\underline{x = 2,5}}$$

11.

$$x + 2 + 3x = 4 + 5x + 6$$

$$4x + 2 = 5x + 10$$

$$| - 4x$$

$$2 = x + 10$$

$$| - 10$$

$$\underline{\underline{-8 = x}}$$

12.

$$1 + 2x + 3 = 4x + 5 + 6x$$

$$2x + 4 = 10x + 5$$

$$| - 2x$$

$$4 = 8x + 5$$

$$| - 5$$

$$-1 = 8x$$

$$| : 8$$

$$\underline{\underline{-0,125 = x}}$$

13.

$$x - 2x - 3x = 4 - 5 - 6$$

$$-4x = -7$$

$$| + 4x$$

$$0 = 4x - 7$$

$$| + 7$$

$$7 = 4x$$

$$| : 4$$

$$\underline{\underline{1,75 = x}}$$

14.

$$x - 2 - 3x = 4 - 5x - 6$$

$$-2x - 2 = -2 - 5x \quad | +5x$$

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

$$3x = 0 \quad | :3$$

$$\underline{\underline{x = 0}}$$

15.

$$1 - 2x - 3 = 4x - 5 - 6x$$

$$-2 - 2x = -2x - 5 \quad | +2x$$

$$\underline{\underline{-2 = -5}}$$

$$\underline{\underline{L = \emptyset}}$$

16.

$$12 - 8x = 8 - 12$$

$$12 - 8x = -4 \quad | +8x$$

$$12 = 8x - 4 \quad | +4$$

$$16 = 8x \quad | :8$$

$$\underline{\underline{2 = x}}$$

17.

$$8 - 6 - 4x = 2x + 1$$

$$2 - 4x = 2x + 1 \quad | +4x$$

$$2 = 6x + 1 \quad | -1$$

$$1 = 6x \quad | :6$$

$$\underline{\underline{\frac{1}{6} = x}}$$

18.

$$1 + 0,2x = 0,1 - 0,1x$$

$$| +0,1x$$

$$1 + 0,3x = 0,1$$

$$| -1$$

$$0,3x = -0,9$$

$$| :0,3$$

$$\underline{\underline{x = -3}}$$

19.

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

$$| -4x$$

$$4x - 8 = 4$$

$$| +8$$

$$4x = 12$$

$$| :4$$

$$\underline{\underline{x = 3}}$$

20.

$$0 = 3 - 0,6x$$

$$| +0,6x$$

$$0,6x = 3$$

$$| :0,6$$

$$\underline{\underline{x = 5}}$$