

5 Řešte rovnici:

5.1

$$0,4 + \frac{4x}{5} - 1 = 0,2x - \frac{3}{2} \quad | \cdot 10$$

$$4 + 8x - 10 = 2x - 15$$

$$8x - 6 = 2x - 15$$

$$8x - 2x = -15 + 6$$

$$6x = -9$$

$$x = -\frac{9}{6} = -\frac{3}{2} = \underline{\underline{-1,5}}$$

5.2

$$\frac{3y-1}{3} - \frac{5y-2}{6} = \frac{3}{4}y + 2 \quad | \cdot 12$$

$$4(3y-1) - 2(5y-2) = 9y + 24 \quad +4y = 24$$

$$12y - 4 - 10y + 4 = 9y + 24 \quad y = -\frac{24}{4}$$

$$2y = 9y + 24$$

$$2y - 9y = 24$$

max. 4 body

5 Řešte rovnici:

5.1

$$\frac{x-2}{0,2} + 0,6 = x + \frac{1}{5} \quad | \cdot 10$$

$$50(x-2) + 6 = 10x + 2$$

$$50x - 100 + 6 = 10x + 2$$

$$50x - 94 = 10x + 2$$

$$50x - 10x = 2 + 94$$

$$40x = 96$$

$$10 : 0,2 = 100 : 2 = 50$$

$$x = \frac{96}{40} = \frac{48}{20} = \frac{24}{10} = \frac{12}{5}$$

$$x = \frac{12}{5} = 2,4$$

5.2

$$\frac{y-2-2y}{3} + 3 \cdot \frac{2y}{5} = 2y - \frac{3y-1}{3} \quad | \cdot 15$$

$$5(y-2-2y) + 9 \cdot 2y = 30y - 5 \cdot (3y-1)$$

$$5y - 10 - 10y + 18y = 30y - 15y + 5$$

$$13y - 10 = 15y + 5$$

$$13y - 15y = 5 + 10$$

$$-2y = 15$$

$$y = 15 : (-2)$$

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