

Вендавање за контролни

26.11.2020.

1. Решити једначину:

a) 124. 81

$$\frac{2x}{3} - \frac{x-3}{6} - 0,5 = x$$

$$\frac{2x}{3} - \frac{x-3}{6} - \frac{1}{2} = x \quad | \cdot 6$$

$$\frac{2}{6} \cdot \frac{2x}{3} - \frac{1}{6} \cdot \frac{x-3}{6} - \frac{3}{6} \cdot \frac{1}{2} = 6 \cdot x$$

$$4x - x + 3 - 3 = 6x$$

$$4x - x - 6x = -3 + 3$$

$$-9x = 0$$

$$x = 0$$

81 $(4x-2)^2 - (2x+1) \cdot (8x-3) = 2x-5$

$$16x^2 - 16x + 4 - (16x^2 - 6x + 8x - 3) = 2x - 5$$

$$\cancel{16x^2} - 16x + 4 - \cancel{16x^2} + 6x - 8x + 3 = 2x - 5$$

$$-16x + 6x - 8x - 2x = -5 - 4 - 3$$

$$-20x = -12$$

$$x = \frac{-12}{-20}$$

$$x = \frac{12}{20} \quad | :4$$

$$x = \frac{3}{5}$$

2. 152. или 150.

B-30г. C-10г.

$$30 + x = 2 \cdot (10 + x)$$

$$30 + x = 20 + 2x$$

$$x - 2x = 20 - 30$$

$$-x = -10 \quad | \cdot (-1)$$

$$x = 10$$

3. 201. a)

$$\frac{4x-1}{5} - \frac{5x-2}{2} < 6\frac{1}{5}$$

$$\frac{4x-1}{5} - \frac{5x-2}{2} < \frac{31}{5} \quad | \cdot 10$$

$$\frac{2}{10} \cdot \frac{4x-1}{5} - \frac{5}{10} \cdot \frac{5x-2}{2} < \frac{2}{10} \cdot \frac{31}{5}$$

$$8x - 2 - 25x + 10 < 62$$

$$8x - 25x < 62 + 2 - 10$$

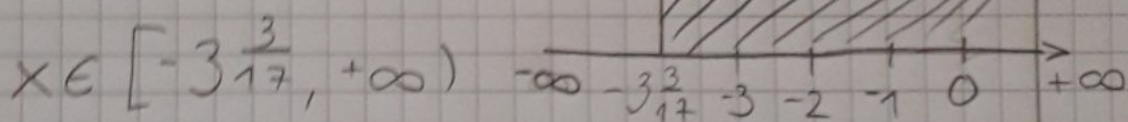
$$-17x < 54$$

$$-17x < \frac{54}{17} \quad | \cdot (-1)$$

$$x > -\frac{54}{17}$$

$$x > -3\frac{3}{17}$$

$$x \in \left[-3\frac{3}{17}, +\infty\right)$$



ДОМАШН

ЗАДАЧА

210. 8) 120. 3), 2)

210. 8)

$$\frac{x-3}{3} > 1 + \frac{x-6}{15} \quad | \cdot 15$$

$$\frac{5}{15} \cdot \frac{x-3}{3} > 15 \cdot 1 + 15 \cdot \frac{x-6}{15}$$

$$5x - 15 > 15 + x - 6$$