

26.11.20. Припрема за контролу

1. Решите једначину:

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

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

2. 150. или 152.

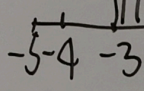
3. Одредите који решења неједначине:

а)  $\frac{4x-1}{5} - \frac{5x-2}{2} \leq 6\frac{1}{5}$

б)  $\frac{x-3}{3} > 1 + \frac{x-6}{15}$

$(\underbrace{4x}_A - \underbrace{2}_B)^2 = (4x)^2 - 2 \cdot 4x \cdot 2 + 2^2 = 16x^2 - 16x + 4$

$(A-B)^2 = A^2 - 2AB + B^2$



он ти:

Paq:

$$1. a) \frac{2x}{3} - \frac{x-3}{6} - 0,5 = x \quad / \cdot 6$$

$$\frac{2}{1} \cdot \frac{2x}{3_1} - \frac{1}{1} \cdot \frac{x-3}{6_1} - 6 \cdot 0,5 = 6 \cdot x$$

$$2 \cdot 2x - (x-3) - 3 = 6x$$

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

$$3x = 6x$$

$$3x - 6x = 0$$

$$-3x = 0$$

$$x = 0$$

Paiz

$$1. \delta) (4x)^2 - 2 \cdot 4x \cdot 2 + 2^2 - (16x^2 - 6x + 8x - 3) = 2x - 5$$

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

$$-18x + 7 = 2x - 5$$

$$-18x - 2x = -5 - 7$$

$$-20x = -12$$

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

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

и ту :

Рад<sub>17</sub>

2. (150.) X-број страница

$$\frac{3}{10} \cdot X + 112 = \frac{X}{2} \quad / \cdot 10$$

$$\frac{\cancel{10}}{1} \cdot \frac{3}{\cancel{10}} \cdot X + 10 \cdot 112 = \frac{\cancel{10}^5}{1} \cdot \frac{X}{\cancel{2}_1}$$

$$3X + 1120 = 5X$$

$$3X - 5X = -1120$$

$$-2X = -1120$$

$$X = -1120 : (-2)$$

$$X = 560$$

л ии .

Рад,  
17

2. (152.) X-број година

O: 30 година

C: 10 година

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

$$30 + X = 20 + 2X$$

$$30 - 20 = 2X - X$$

$$10 = X$$

За 10 година

3. 201. a)

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

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

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

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

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

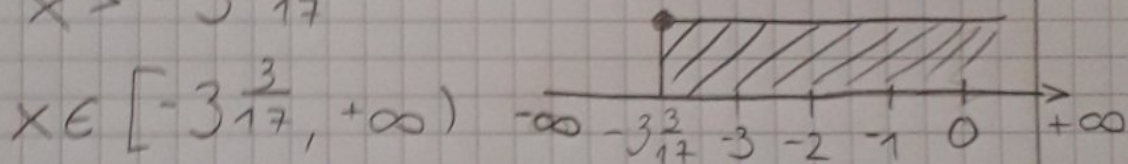
$$-17x < 54$$

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

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

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

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



ДОМАШН

ЗАДАЧА

210. 8) 120. 3), 2)

210. 8)

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

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

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