

25.11.20.

Зощууска Насиаво

142. $x, x+1, x+2, x+3$

$$x + (x+1) + (x+2) + (x+3) = 866$$

$$4x + 6 = 866$$

$$4x = 866 - 6$$

$$4x = 860$$

$$x = 860 : 4$$

$$x = 215$$

$$\Pi: 215 + 216 + 217 + 218 = 866 \checkmark$$

144. $X, X+1$

$$(X+1)^2 - X^2 = 167$$

~~$$X^2 + 2 \cdot X \cdot 1 + 1^2 - X^2 = 167$$~~

$$2X + 1 = 167$$

$$2X = 167 - 1$$

$$2X = 166$$

$$X = 166 : 2$$

$$X = 83$$

$$\square: 84^2 - 83^2 = (84-83) \cdot (84+83) = 1 \cdot 167 = 167 \checkmark$$

$$(A \pm B)^2 = A^2 \pm 2AB + B^2$$

$$A^2 - B^2 = (A-B) \cdot (A+B)$$

25.11.20.

20йчунска Насимава

148. x - број сираниа

$$\frac{2}{5} \cdot x + 23 = \frac{x}{2} \quad / \cdot 10$$

$$\frac{\cancel{10}^2}{1} \cdot \frac{2x}{\cancel{5}_1} + 10 \cdot 23 = \frac{\cancel{10}^5}{1} \cdot \frac{x}{\cancel{2}_1}$$

$$2 \cdot 2x + 230 = 5x$$

$$4x + 230 = 5x$$

$$230 = 5x - 4x$$

$$x = 230$$

$$\text{П: } \frac{2}{5} \cdot \frac{\overset{46}{\cancel{230}}}{1} + 23 = 92 + 23 = 115 = \frac{230}{2}$$

149. x - шренујинч
број година

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

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

$$x + 22 = 4 \cdot (x - 8)$$

$$x + 22 = 4x - 32$$

$$22 + 32 = 4x - x$$

$$54 = 3x$$

$$x = 54 : 3$$

$$x = 18$$

Јован шренујино има 18 година.

$$\text{П: } 18 + 22 = 4 \cdot (18 - 8) ?$$

$$40 = 4 \cdot 10 \checkmark$$

25.11.20.

Зонунска Насињава

181

158. $2k$ - паран број
 $2k+1$ - непаран број

$$X = 2k$$

$$2k, 2k+2, 2k+4$$

$$\frac{2k}{2} + (2k+2) + (2k+4) = 33$$

$$\frac{k}{2} + 4k + 6 = 33 \quad / \cdot 2$$

$$k + 8k + 12 = 66$$

$$9k + 12 = 66$$

$$9k = 66 - 12$$

$$9k = 54$$

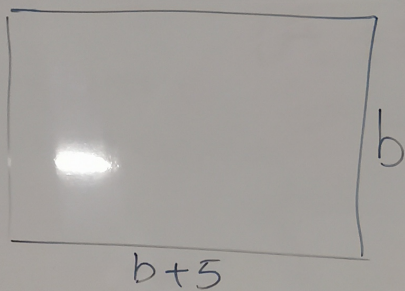
$$k = 54 : 9 = 6$$

$$X = 2 \cdot k = 2 \cdot 6$$

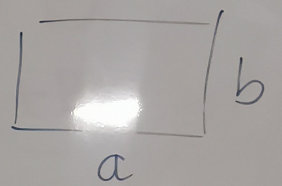
$$X = 12$$

По су бројеви 12, 14 и 16.

181.



$$P = a \cdot b$$



$$a = b + 5$$

$$b \cdot \underbrace{(b+5)}_a = \underbrace{(b+5+3)}_a \cdot (b-1)$$

$$b^2 + 5b = (b+8) \cdot (b-1)$$

$$\cancel{b^2} + 5b = \cancel{b^2} - \underline{b} + \underline{8b} - 8$$

$$5b = 7b - 8$$

$$5b - 7b = -8$$

$$-2b = -8$$

$$b = -8 : (-2)$$

$$b = 4$$

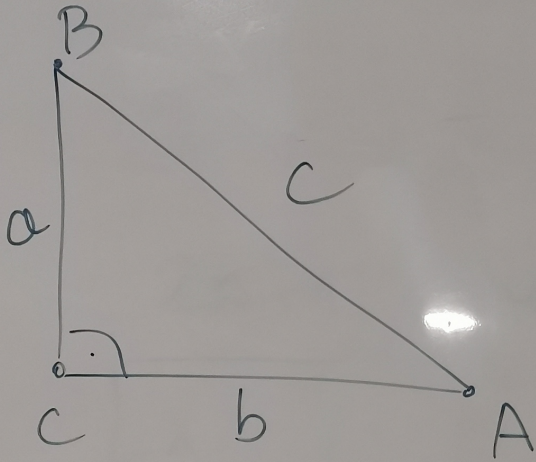
$$a = b + 5 = 9$$

2, 14 u 16.

25.11.20

Зощукска На

182.



$$b = 5$$

$$a = c - 1$$

$$c = ?$$

$$c^2 = a^2 + b^2$$

$$c^2 = (c - 1)^2 + 5^2$$

$$c^2 = c^2 - 2c + 1 + 25$$

$$2c = 26$$

$$c = 26 : 2$$

$$c = 13$$

$$\square: 5^2 + 12^2 = 13^2$$

аушаба

$$212. \delta) (x-4)^2 - (x+3)^2 < 3 \cdot (x-9)$$

$$x^2 - 2 \cdot x \cdot 4 + 4^2 - (x^2 + 2 \cdot x \cdot 3 + 3^2) < 3x - 27$$

$$\cancel{x^2} - \underline{8x} + 16 - \cancel{x^2} - \underline{6x} - 9 < 3x - 27$$

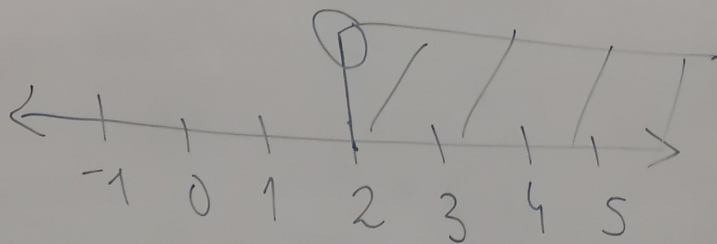
$$-14x + 7 < 3x - 27$$

$$-14x - 3x < -27 - 7$$

$$-17x < -34 \quad /: (-17)$$

$$x > (-34) : (-17)$$

$$x > 2$$



$$x \in (2, +\infty)$$

25.11.20.

Лобушка Насмава

$$213. \text{в)} \quad x - \frac{20x - (10 - 3x)}{156} \leq \frac{26x - 51}{52} - \frac{2 \cdot (1 - 3x)}{13} \quad \cdot 156$$

$$156x - \frac{156}{1} \cdot \frac{20x - (10 - 3x)}{156} \leq \frac{156}{1} \cdot \frac{26x - 51}{52} - \frac{12}{1} \cdot \frac{2 \cdot (1 - 3x)}{13}$$

$$156x - (20x - (10 - 3x)) \leq 3 \cdot (26x - 51) - 12 \cdot 2 \cdot (1 - 3x)$$

$$156x - (20x - 10 + 3x) \leq 78x - 153 - 24 \cdot (1 - 3x)$$

$$156x - (23x - 10) \leq 78x - 153 - 24 + 72x$$

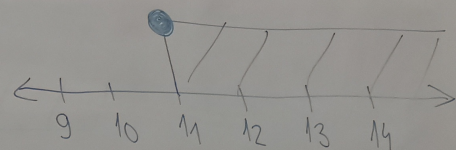
$$156x - 23x + 10 \leq 150x - 177$$

$$133x + 10 \leq 150x - 177$$

$$133x - 150x \leq -177 - 10$$

$$-17x \leq -187 \quad /: (-17)$$

$$\rightarrow X \geq (-187) : (-17)$$
$$X \geq 11$$



$$X \in [11, +\infty)$$