

7-sinf matematika  
1-Bibit

$$4) \begin{cases} 3x - 8y = 22 \\ 7x + 8y = 78 \end{cases}$$

$$\underline{10x = 100}$$

$$x = 10$$

$$3 \cdot 10 - 8y = 22$$

$$30 - 8y = 22$$

$$-8y = -8$$

$$y = 1$$

$$5) \frac{1^2 - 0,4^2}{2,8 \cdot 0,4 - 2,8} = \frac{(1-0,4)(1+0,4)}{2,8(0,4-1)} = \frac{0,6 \cdot 1,4}{2,8 \cdot 0,6} = \frac{1}{2}$$

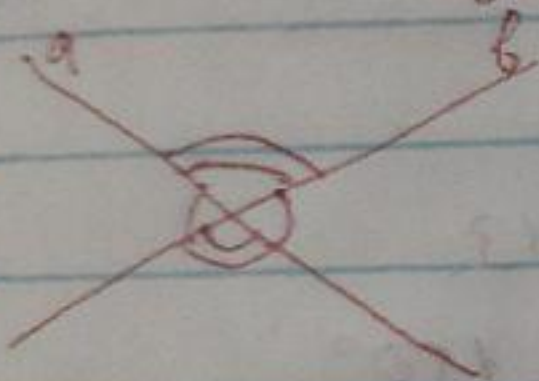
$$6) 5x(12x - 7) - 4x(5x - 11) = 30 + 29x$$

$$60x^2 - 35x - 20x^2 + 44x - 29x - 30 = 0$$

$$-20x = 30$$

$$x = -1,5$$

Jawab:  $x = -1,5$



$$360^\circ - 315^\circ = 45^\circ$$

$$315^\circ - 45^\circ = 270^\circ$$

$$270^\circ : 2 = 135^\circ$$

burchaklari  $45^\circ, 135^\circ, 45^\circ, 135^\circ$ , kichigi  $45^\circ$

$$7) a = 0,8$$

$$b = 1,9, \quad c = x$$

$$\begin{cases} c < a + b \\ a < c + b \\ b < c + a \end{cases}$$

$$b - a < c < a + b$$

$$1,9 - 0,8 < c < 1,9 + 0,8$$

$$1,1 < c < 2,7$$

faqatgi 2 soni butun son.

@RakhimovDiyorbek

@imtihon-javoblari-5-11sinflar



## 2-Bilet

$$1) \begin{cases} 5x + 7y = 26 \\ 5x - 7y = 62 \end{cases}$$
$$10x = 88$$
$$x = 8,8$$

$$5 \cdot 8,8 + 7y = 26$$
$$44 + 7y = 26$$
$$7y = -18$$
$$y = -\frac{18}{7}$$

2) 1, 2, 3, 12, 13, 21, 23, 31, 32, 123, 132, 213, 231, 312, 321  
15 ta.

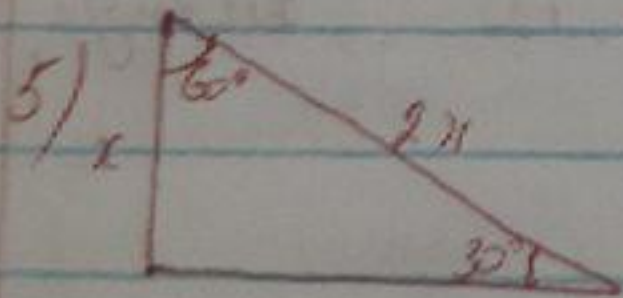
$$3) 2 - \frac{3x-7}{4} + \frac{x+7}{5} = 0$$

$$2 \cdot 20 - 20 \cdot \frac{3x-7}{4} + 20 \cdot \frac{x+7}{5} = 0 \cdot 20$$
$$40 - 5(3x-7) + 4(x+7) = 0$$
$$40 - 15x + 35 + 4x + 28 = 0$$
$$-11x = -143$$
$$x = 13$$

Jawab: 13

$$4) 180^\circ - 30^\circ = 150^\circ$$

$$30^\circ, 150^\circ, 30^\circ, 150^\circ$$



$$x + 2x = 52,8$$

$$3x = 52,8$$

$$x = 17,6$$

30° qarshidagi katet gipotenuzaning yarmiga teng.

Jawab: kichik katet 17,6



### 3-Bilet

$$\begin{cases} 4x + 3y = 8 \\ 4x + 5y = 16 \end{cases}$$

$$\underline{8y = 24}$$

$$y = 3$$

$$4x + 5 \cdot 3 = 86$$

$$4x + 15 = 16$$

$$4x = 1$$

$$x = \frac{1}{4}$$

$$2) \left(1 - \frac{1}{2^2}\right) \left(1 - \frac{1}{3^2}\right) \left(1 - \frac{1}{4^2}\right) \left(1 - \frac{1}{5^2}\right) \left(1 - \frac{1}{6^2}\right) = \left(1 - \frac{1}{4}\right) \left(1 - \frac{1}{9}\right)$$

$$\left(1 - \frac{1}{16}\right) \left(1 - \frac{1}{25}\right) \left(1 - \frac{1}{36}\right) = \frac{3}{4} \cdot \frac{8}{9} \cdot \frac{15}{16} \cdot \frac{24}{25} \cdot \frac{35}{36} =$$

$$= \frac{7}{12}$$

$$3) \frac{4 \cdot |2x|}{1,5} = \frac{1,6}{0,3}$$

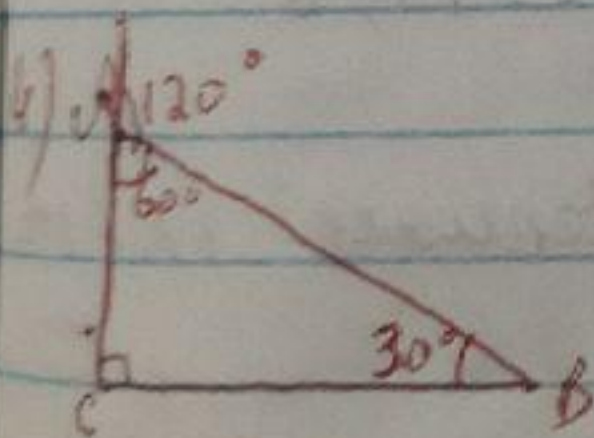
$$8x \cdot 0,3 = 1,5 \cdot 1,6$$

$$8x = \frac{2,4}{0,3}$$

$$8x = 8$$

$$x = 1$$

Jawab: 1



$$AC + AB = 18$$

$$\angle CAB = 180^\circ - \angle A^\circ = 180^\circ - 120^\circ = 60^\circ$$

$30^\circ$  burchak qarshisidagi katet gipotenuzaning yarmiga teng.

$$AC = x \quad AB = 2AC = 2x$$

Bundan  $AC = \frac{AB}{2}$

$$AC + AB = 18$$

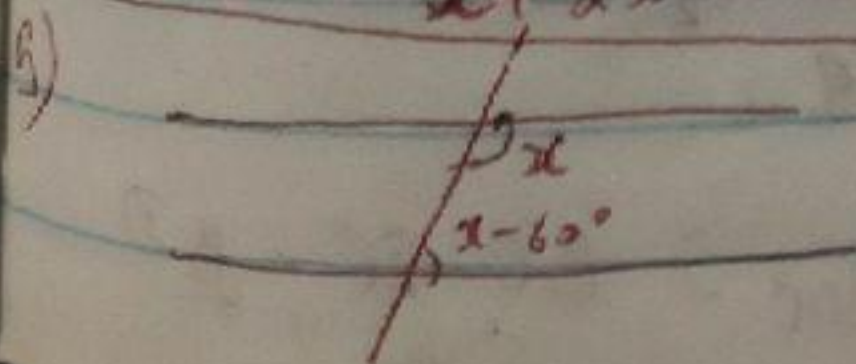
$$x + 2x = 18$$

$$3x = 18$$

$$x = 6$$

$$AB = 2AC = 12$$

Jawab: 6 sm va 12 sm



$$x + x - 60^\circ = 180^\circ$$

$$2x = 240^\circ$$

$$x = 120^\circ$$

Jawab:  $60^\circ, 120^\circ$

@RahimovDiyorbek



# 4- Bilet.

$$1. \begin{cases} 9x - 5y = 23 \\ 9x + 2y = -5 \end{cases}$$

$$\underline{-7y = 28}$$

$$y = -4$$

$$9x - 5(-4) = 23$$

$$9x + 20 = 23$$

$$9x = 3$$

$$x = \frac{1}{3}$$

Jawab:  $x = \frac{1}{3}$ ;  $y = -4$ .

$$2. \frac{0,2^2 + 2 \cdot 0,2 \cdot 0,3 + 0,3^2}{0,5 \cdot 0,4 - 0,5 \cdot 0,6} = \frac{(0,2 + 0,3)^2}{0,5(0,4 - 0,6)} = \frac{0,5^2}{0,5 \cdot 0,2} = 2,5$$

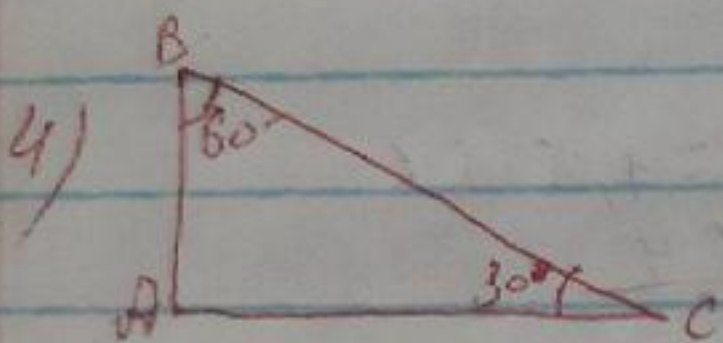
$$3) x^3 - 25x = 0$$

$$x(x^2 - 25) = 0$$

$$x(x-5)(x+5) = 0$$

$$x_1 = 0 \quad x_2 = 5 \quad x_3 = -5$$

Jawab: 0; 5; -5



30° li burchak qarshisidagi katet gipotenuzaning yarmiga teng. Bundan

$$AB = \frac{BC}{2} \quad BC = 2AB$$

$$AB + BC = 26,4$$

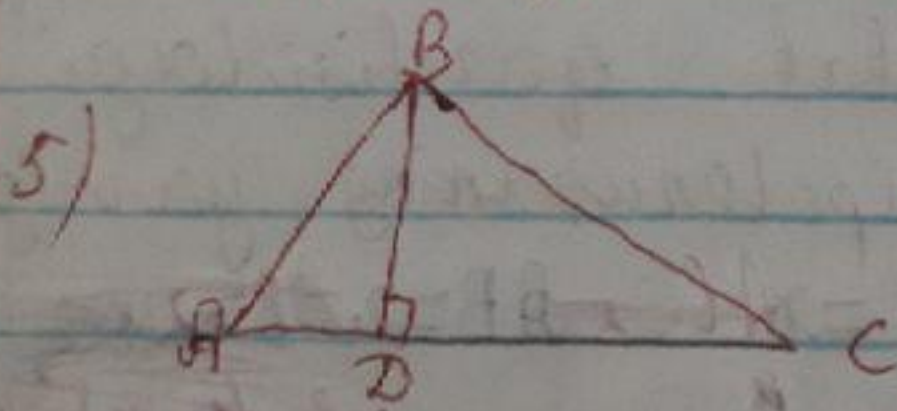
$$AB + 2AB = 26,4$$

$$3AB = 26,4$$

$$AB = 8,8$$

$$BC = 2 \cdot 8,8 = 17,6$$

Jawab: gipotenuzasi 17,6 m.



$$P_{ABC} = 24$$

$$P_{ABD} = 14$$

$$P_{BDC} = 18$$

$$P_{ABD} + P_{BDC} = 14 + 18 = 32$$

$$BD = \frac{32 - P_{ABC}}{2} = \frac{32 - 24}{2} = \frac{8}{2} = 4$$

$$BD = \frac{42}{2} = 21$$

$$P_{ABD} = AB + AD + BD$$

$$P_{BDC} = BC + DC + BD$$



# 5-BILET

$$\begin{aligned} 11x - 7y &= 0 \\ -13x - 7y &= 8 \\ \hline -2x &= -8 \\ x &= 4 \end{aligned}$$

$$\begin{aligned} 11 \cdot 4 - 7y &= 0 \\ 44 &= 7y \\ y &= \frac{44}{7} \end{aligned}$$

$$\frac{4,5^2 - 1,5^2}{0,3 \cdot 0,7 - 0,3} = \frac{(4,5 - 1,5)(4,5 + 1,5)}{0,3(0,7 - 1)} = \frac{3 \cdot 6}{-0,3 \cdot 0,3} = -200$$

$$\begin{aligned} (x-7)^2 + 3 &= (x-2)(x+2) \\ x^2 - 14x + 49 + 3 &= x^2 - 4 \\ -14x &= -56 \\ x &= 4 \end{aligned}$$

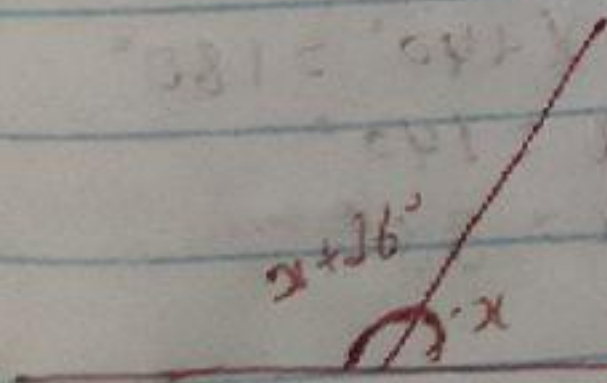
Jawab:  $x=4$

Dimohon jawablah 5-11 soal

$$\begin{aligned} 2x + 3x + x &= 180^\circ \\ 6x &= 180^\circ \\ x &= 30^\circ \end{aligned}$$

$$\begin{aligned} 2 \cdot 30^\circ &= 60^\circ \\ 3 \cdot 30^\circ &= 90^\circ \\ 1 \cdot 30^\circ &= 30^\circ \end{aligned}$$

Jawab:  $30^\circ, 60^\circ, 90^\circ$



$$\begin{aligned} x + x + 26^\circ &= 180^\circ \\ 2x &= 154 \\ x &= 77^\circ \\ 77^\circ + 26^\circ &= 103^\circ \end{aligned}$$

@RakhinaDiyorbet



# 6-BILET

$$1) \begin{cases} 10x + 9y = 48 \\ -10x - 7y = 0 \end{cases}$$

$$16y = 48$$

$$y = 3$$

$$10x + 9 \cdot 3 = 48$$

$$10x = 21$$

$$x = 2,1$$

Jawab:  $x = 2,1$ ,  $y = 3$

2) 20, 24, 26, 40, 42, 46, 60, 62, 64

9 ta 2 xonali son yozish mumkin

$$3) 1 + \frac{x+1}{3} = x - \frac{3x+1}{8}$$

$$24 + 8(x+1) = 24x - 3(3x+1)$$

$$24 + 8x + 8 = 24x - 9x - 3$$

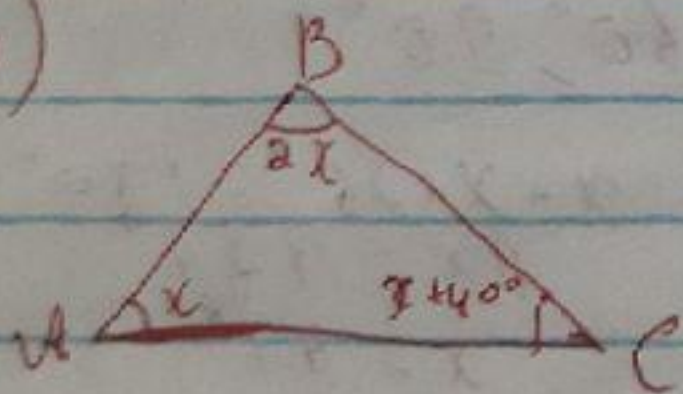
$$-7x = -3 - 32$$

$$-7x = -35$$

$$x = 5$$

Jawab:  $x = 5$

4)



$$x + 2x + x + 40^\circ = 180^\circ$$

$$4x = 140^\circ$$

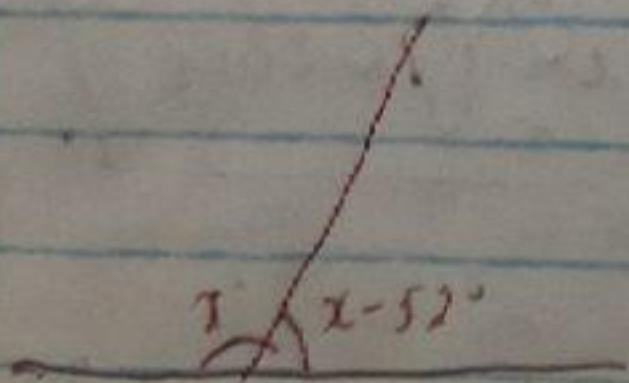
$$x = 35^\circ$$

$$35^\circ \cdot 2 = 70^\circ$$

$$35^\circ + 40^\circ = 75^\circ$$

Jawab:  $35^\circ, 70^\circ, 75^\circ$

5)



$$x + (x - 52^\circ) = 180^\circ$$

$$2x - 52^\circ = 180^\circ$$

$$2x = 232^\circ$$

$$x = 116^\circ$$

$$116^\circ - 52^\circ = 64^\circ \text{ Jawab: } 64^\circ$$

@RakhimovDiyorbek

@Dimitkor-jawoblaru-5-11sinflar



7 - Bilet.

$$\begin{cases} 15x - 8y = 2 \\ 5x + 3y = 63 \end{cases} \quad | \quad 3$$

$$\begin{cases} 15x - 8y = 2 \\ 15x + 9y = 189 \end{cases}$$

$$-17y = -187$$

$$y = 11$$

$$5x + 3 \cdot 11 = 63$$

$$5x + 33 = 63$$

$$5x = 30$$

$$x = 6$$

Yarob:  $x = 6, y = 11$

$$\left(1 - \frac{1}{3^2}\right) \left(1 - \frac{1}{4^2}\right) \left(1 - \frac{1}{5^2}\right) \left(1 - \frac{1}{6^2}\right) \left(1 - \frac{1}{7^2}\right) \left(1 - \frac{1}{8^2}\right) =$$

$$\frac{8}{9} \cdot \frac{15}{16} \cdot \frac{24}{25} \cdot \frac{35}{36} \cdot \frac{48}{49} \cdot \frac{63}{64} = \frac{48}{64} = \frac{3}{4}$$

$$3(6y + 7) + 4(8 - 5y) = 60$$

$$18y + 21 + 32 - 20y = 60$$

$$-2y = 7$$

$$y = -3,5$$

Yarob:  $y = -3,5$

$$2(40 + 25) = 2 \cdot 65 = 130$$

Yarob: 130

$$2x + 3x + 5x = 180^\circ$$

$$10x = 180^\circ$$

$$x = 18^\circ$$

$$2 \cdot 18^\circ = 36^\circ$$

$$3 \cdot 18^\circ = 54^\circ$$

$$5 \cdot 18^\circ = 90^\circ$$

Yarob:  $36^\circ, 54^\circ, 90^\circ$

Shakhimov Diyorbek



# 8-BILET

$$1) \begin{cases} 12a - 11b = 18 \\ 3a + 5b = 51 \end{cases} \quad | \quad 4 \quad |$$

$$\begin{cases} 12a - 11b = 18 \\ -12a + 20b = 204 \end{cases}$$

$$\hline -31b = -186$$

$$b = 6$$

$$3a + 5 \cdot 6 = 51$$

$$3a + 30 = 51$$

$$3a = 21$$

$$a = 7$$

Jawab:  $a = 7$  ;  $b = 6$ .

Amintihon-javoblarini 5 marta yozib ber

$$2) \begin{matrix} 888, 889, 898, 899, \\ 988, 989, 998, 999 \end{matrix}$$

8 ta yozib ber

$$3) \frac{4x+7}{5} + \frac{3x-2}{2} - \frac{5x-2}{2} = 32$$

$$10 \cdot \frac{4x+7}{5} + 10 \cdot \frac{3x-2}{2} - 10 \cdot \frac{5x-2}{2} = 32 \cdot 10$$

$$2(4x+7) + 5(3x-2) - 5(5x-2) = 320$$

$$8x + 14 + 15x - 10 - 25x + 10 = 320$$

$$-2x = 306$$

$$x = -152$$

Jawab:  $x = -152$

$$4) 1,9 - 0,5 < x < 1,9 + 0,5$$

$$1,4 < x < 2,4$$

bu sonlar orasida faqat 2 butun son

$$5) \begin{matrix} x \\ 1,4x \end{matrix}$$

$$(1,4x)^2 = 1,96x^2$$

$$\frac{1,96x^2}{x^2} = 1,96 \text{ marta ortadi}$$

@RahimovDiyorbek



# 9-BILET

$$\begin{cases} 4x - 3y = 7 & | 2 \\ 5x + 2y = 26 & | 3 \end{cases}$$

$$\begin{cases} 8x - 6y = 14 \\ 15x + 6y = 78 \end{cases}$$

$$23x = 92$$

$$x = 4$$

Jawab:  $x = 4$

$$\frac{0,2^2 - 2 \cdot 0,2 \cdot 0,3 + 0,3^2}{0,5 \cdot 0,9 - 0,5} = \frac{(0,2 - 0,3)^2}{0,5(0,9 - 0,5)} = \frac{0,01}{0,5 \cdot 0,4} = 0,2$$

$$25x^3 - 1 = 0$$

$$x(25x^2 - 1) = 0$$

$$x(5x - 1)(5x + 1) = 0$$

$$x = 0$$

$$5x - 1 = 0$$

$$5x = 1$$

$$x = 0,2$$

$$5x + 1 = 0$$

$$5x = -1$$

$$x = -0,2$$

Jawab:  $0, -0,2, 0,2$

@RakimovDiyoribek

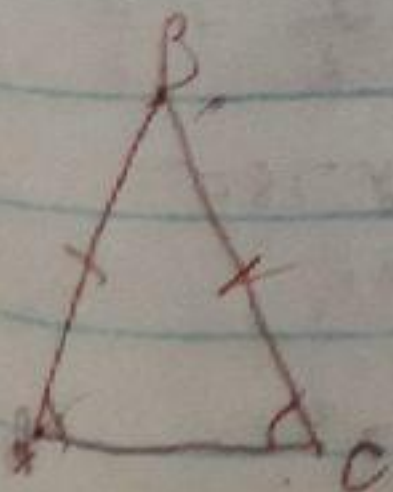
$$S = ab$$

$$1,3a \cdot 0,8b = 1,04ab$$

4% ga

$$1,04ab - ab = 0,04ab$$

ortadi.



$$\begin{cases} AB : AC = 5 : 3 \\ AB - AC = 3 \end{cases}$$

$$\begin{cases} x : y = \frac{5}{3} \\ x - y = 3 \end{cases}$$

$$\begin{cases} x : y = \frac{5}{3} \\ x - y = 3 \end{cases}$$

$$\begin{cases} x : y = \frac{5}{3} \\ x - y = 3 \end{cases}$$

At

$$AB = x$$

$$AC = y$$

$$\begin{cases} \frac{x}{y} = \frac{5}{3} \\ x = 3 + y \end{cases}$$

$$\begin{cases} \frac{x}{y} = \frac{5}{3} \\ x = 3 + y \end{cases}$$

$$x = 7,5$$

$$\frac{y+3}{y} = \frac{5}{3}$$

$$3y = 3y + 9$$

$$0y = 9$$

$$y = 4,5$$

$$P = 7,5 + 7,5 + 4,5 = 19,5$$



# 10-BILET

$$1. \begin{cases} 5x + 6y = 1 & |4| \\ 4x + 7y = 3 & |5| \end{cases}$$

$$\begin{cases} 20x + 24y = 4 \\ -20x + 35y = 15 \\ \hline -9y = -9 \\ y = 1 \end{cases}$$

$$\begin{aligned} 5x + 6 &= 1 \\ 5x &= -5 \\ x &= -1 \end{aligned}$$

Jawab:  $x = -1$ ;  $y = 1$

$$2. \frac{(3,7^2 - 6,3^2)(13^2 - 12,6^2)}{(4,5^2 - 5,8^2)(2,3^2 - 0,3^2)} = \frac{-10 \cdot 2,6 \cdot 25,6 : 0,4}{-10 \cdot 1,3 \cdot 2 \cdot 2,6}$$

$$= \frac{356 \cdot 0,4}{26} = \frac{128 \cdot 0,4}{13} = \frac{51,2}{13} \approx 4$$

@intikon jawablan's 11sig

$$3. (2x - 1)^2 - 9 = 0$$

$$(2x - 1 - 3)(2x - 1 + 3) = 0$$

$$(2x - 4)(2x + 2) = 0$$

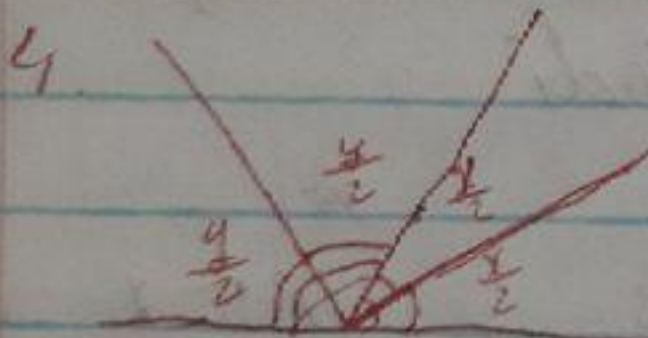
$$\frac{1}{2}(x - 2)(x + 1) = 0$$

$$(x - 2)(x + 1) = 0$$

$$\begin{aligned} x - 2 &= 0 \\ x &= 2 \end{aligned}$$

$$\begin{aligned} x + 1 &= 0 \\ x &= -1 \end{aligned}$$

Jawab:  $-1, 2$



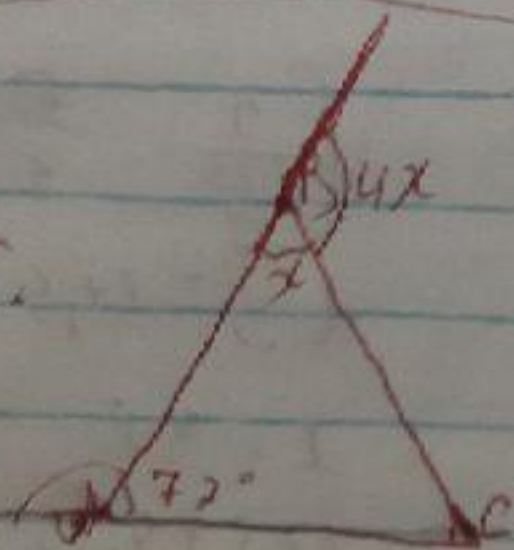
$$\frac{x}{2} + \frac{x}{2} + \frac{y}{2} + \frac{y}{2} = 180^\circ$$

$$x + y = 180^\circ$$

$$\frac{x}{2} + \frac{y}{2} = 180^\circ : 2$$

$$\frac{x}{2} + \frac{y}{2} = 90^\circ$$

5.



$$x + 4x = 180^\circ$$

$$5x = 180^\circ$$

$$x = 36^\circ$$

$$180^\circ - 36^\circ =$$

$$= 144^\circ$$

$$\frac{144^\circ}{2} = 72^\circ$$

$$\angle A = 180^\circ - 72^\circ = 108^\circ$$



# 11-BILET

$$5\frac{7}{18} - 4\frac{23}{30}$$

x

$$\frac{56 \cdot \frac{10}{9}}{50} = \frac{485 - 429}{90}$$

$$3,2 + 0,8 \cdot (5,5 - 3,25)$$

$$\frac{56}{45}$$

$$3,2 + 1,8$$

$$\frac{56}{90} \cdot \frac{45}{56} = \frac{x}{5}$$

$$\frac{1}{2} = \frac{x}{5}$$

$$x = 2,5$$

$$\begin{cases} 9x - 7y = 1 \\ 4x + 3y = 31 \end{cases} \begin{array}{l} 3 \\ 7 \end{array}$$

$$\begin{cases} 27x - 21y = 3 \\ 28x + 21y = 217 \end{cases}$$

$$55x = 220$$

$$x = 4$$

$$9 \cdot 4 - 7y = 1$$

$$36 - 7y = 1$$

$$7y = 35$$

$$y = 5$$

$$\frac{x-1}{3} + \frac{5x+2}{12} = \frac{5+3x}{4}$$

$$4x - 4 + 5x + 2 = 15 + 9x$$

$$15 \neq -2$$

таглама yechimga ega emas

4

$$x \cdot 2,5x = 250$$

$$2,5x^2 = 250$$

$$x^2 = 100$$

$$x = 10$$

$$10 \cdot 2,5 = 25$$

Jawob: 10 m, 25 m

$$3x + 7x + 8x = 180^\circ$$

$$18x = 180^\circ$$

$$x = 10^\circ$$

$$3 \cdot 10^\circ = 30^\circ$$

$$7 \cdot 10^\circ = 70^\circ$$

$$8 \cdot 10^\circ = 80^\circ$$

$$180^\circ - 30^\circ = 150^\circ$$

$$180^\circ - 70^\circ = 110^\circ$$

$$180^\circ - 80^\circ = 100^\circ$$

Jawob: 100°, 110°, 150°



# 12-BILET.

$$1. \begin{cases} 8a - 5b = 1 \\ 7a + 3b = 23 \end{cases} \begin{array}{l} | 3 \\ | 5 \end{array}$$

$$\begin{cases} + 24a - 15b = 3 \\ 35a + 15b = 115 \end{cases}$$

$$\begin{array}{r} 59a = 118 \\ a = 2 \end{array}$$

$$8 \cdot 2 - 5b = 1$$

$$16 - 5b = 1$$

$$5b = 15$$

$$b = 3$$

Жауоб:  $a = 2, b = 3$

$$2. \frac{1,6^2 - 2 \cdot 1,6 \cdot 0,4 + 0,4^2}{1,4 - 0,2^2} = \frac{(1,6 - 0,4)^2}{0,2(0,7 - 0,2)} = \frac{1,2^2}{0,2 \cdot 0,5}$$

$$= \frac{1,2^2}{10} = \frac{144}{10} = 14,4$$

$$3. 9x - x^3 = 0$$

$$x(9 - x^2) = 0$$

$$x(3 - x)(3 + x) = 0$$

$$x = 0$$

$$3 - x = 0$$

$$x = 3$$

$$3 + x = 0$$

$$x = -3$$

Жауоб:  $0; -3; 3$

$$4. 180^\circ - x + 180^\circ - y = 240^\circ$$

$$-(x + y) = -120^\circ$$

$$x + y = 120^\circ$$

$$180^\circ - 120^\circ = 60^\circ$$

Жауоб:  $60^\circ$

$$5. 2 \cdot (8 + 18) = 2 \cdot 26 = 52$$

Жауоб: 52

@rakhiindiyorbek

@imtihon\_javoblari - 5 - 11 may



# 13-BILET

$$\begin{cases} 14x + 5y = 14,5 & |4| \\ 3x + 4y = 3,4 & |5| \end{cases}$$

$$\begin{cases} 56x + 20y = 58 \\ -15x + 28y = 17 \\ \hline 41x = 41 \\ x = 1 \end{cases}$$

$$\begin{aligned} 3 \cdot 1 + 4y &= 3,4 \\ 4y &= 0,4 \\ y &= 0,1 \end{aligned}$$

Жауоб:  $x=1, y=0,1$

$$\frac{0,6 \cdot 0,8 + 0,6 \cdot 1,2}{0,2^2 - 0,4^2} = \frac{0,6(0,8+1,2)}{(0,2-0,4)(0,2+0,4)} = \frac{0,6 \cdot 2}{0,2 \cdot 0,6}$$

= 10

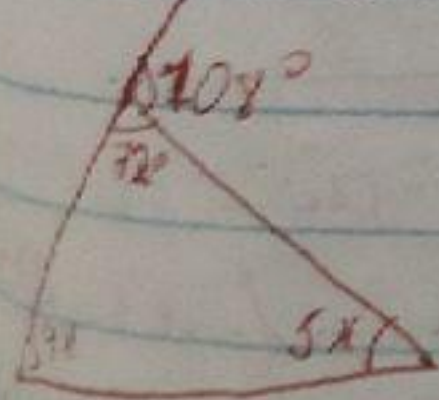
$$\frac{x-1}{3} + \frac{5x+2}{12} = \frac{5+3x}{4}$$

$$4x-4 + 5x+2 = 15+9x$$

$$-2 \neq 15$$

Тенглама yelchinga ega emas.

$$180^\circ - 108^\circ = 72^\circ$$



$$180^\circ - 72^\circ = 4x + 5x$$

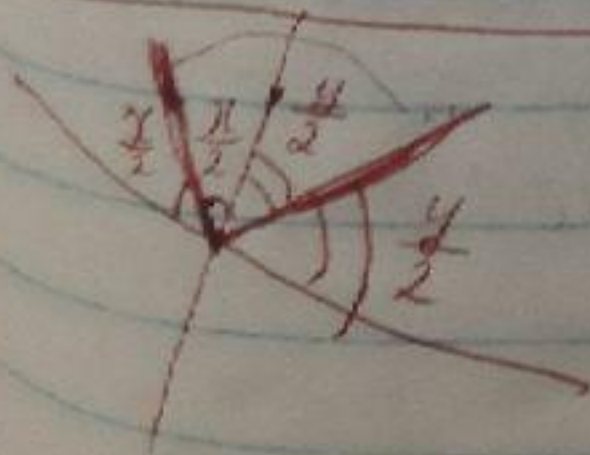
$$108^\circ = 9x$$

$$x = 12$$

$$4 \cdot 12 = 48^\circ$$

$$5 \cdot 12 = 60^\circ$$

Жауоб:  $48^\circ, 60^\circ$



$$\frac{x}{2} + \frac{x}{2} + \frac{y}{2} + \frac{y}{2} = 180^\circ$$

$$2\left(\frac{x}{2} + \frac{y}{2}\right) = 180^\circ$$

$$\frac{x}{2} + \frac{y}{2} = 90^\circ \quad \text{Жауоб: } 90^\circ$$

Граблинмаси йонбек



# 14. - BILET

$$1) \begin{cases} 8x + 7y = 0 & | 2 \\ 3x + 2y = 15 & | 7 \end{cases}$$

$$\begin{cases} 16x + 14y = 0 \\ -21x + 14y = 105 \end{cases}$$

$$-5x = -105$$

$$x = 21$$

$$3 \cdot 21 + 2y = 15$$

$$2y = 15 - 63$$

$$2y = -48$$

$$y = -24$$

Jawab:  $x = 21$ ,  $y = -24$ .

$$2) (3x+1)(3x-1) - (3x-2)(3x+2) = 17$$

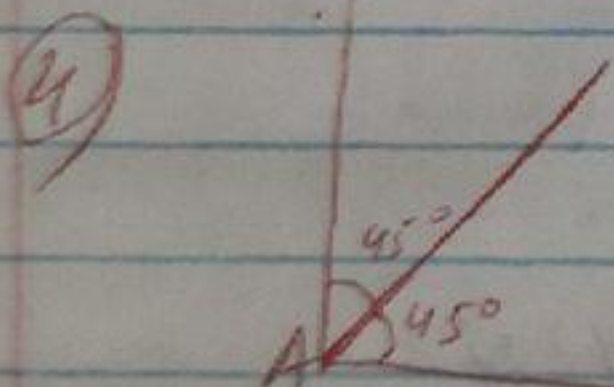
$$9x^2 - 1 - 9x^2 + 4 = 17$$

$$3 \neq 17$$

Tenglama yechimga ega emas.

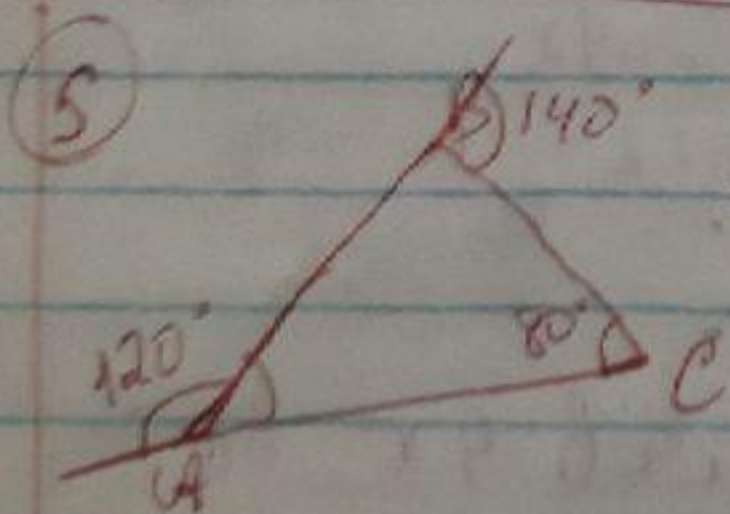
$$3) \frac{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{5} = 24$$

24 xil usulda turish



$$\angle A = 2 \cdot 45^\circ = 90^\circ$$

@rakhimovdiyorbek



$$\angle BAC = 180^\circ - 120^\circ = 60^\circ$$

$$\angle ABC = 180^\circ - (\angle A + \angle C) =$$

$$= 180^\circ - (60^\circ + 80^\circ) = 180^\circ - 140^\circ =$$

$$= 40^\circ$$

$$\angle B = 180^\circ - 40^\circ = 140^\circ$$

Jawab:  $140^\circ$

@rakhimovdiyorbek



13- Bilik.

$$\begin{cases} 35x - 3y = 5 & | 4 | \\ 49x - 4y = 9 & | 3 | \end{cases} \quad \begin{cases} 140x - 12y = 20 \\ 147x - 12y = 27 \end{cases}$$

$$\begin{aligned} 35x - 3y &= 5 \\ 3y &= 30 \\ y &= 10 \end{aligned}$$

Jawab:  $x = 1, y = 10$

$$\begin{aligned} -7x &= -7 \\ x &= 1 \end{aligned}$$

$$\frac{0,5^2 - 0,5}{0,4^2 + 2 \cdot 0,4 \cdot 0,1 + 0,1^2} = \frac{0,5(0,5 - 1)}{(0,4 + 0,1)^2} = \frac{-0,5 \cdot 0,5}{0,5^2} = -1$$

$$5x^4 - 20x^2 = 0$$

$$5x^2(x^2 - 4) = 0$$

$$5x^2(x - 2)(x + 2) = 0$$

$$x_1 = 0$$

$$x - 2 = 0$$

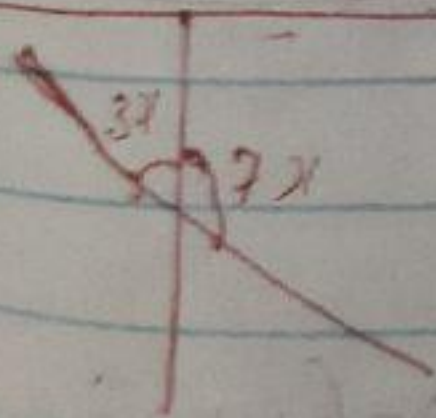
$$x_2 = 2$$

$$x + 2 = 0$$

$$x_3 = -2$$

Jawab:  $0; -2; 2$

@rakhimovdiyorbek



$$\begin{aligned} 3x + 7x &= 180^\circ \\ 10x &= 180^\circ \\ x &= 18^\circ \end{aligned}$$

$$3 \cdot 18^\circ = 54^\circ$$

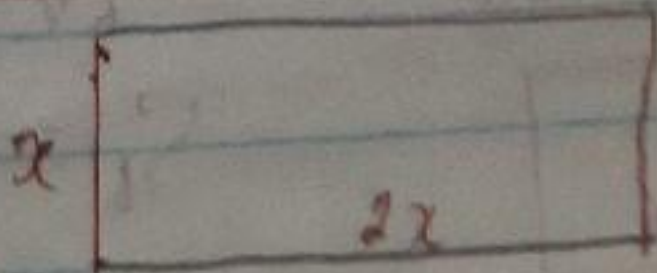
$$7 \cdot 18^\circ = 126^\circ$$

Jawab:  $54^\circ, 126^\circ$

$$2(x + 2x) = 54$$

$$3x = 27$$

$$x = 9$$



$$2 \cdot 9 = 18$$

Jawab:  $9 \text{ dm}, 18 \text{ dm}$

@rakhimovdiyorbek



# 16-BILET

$$1. \frac{(15,2^2 : 2,6 + 8,1)^2 - 6,5^2}{(60,192 : 2,4 - 1,08)^2 - 924 \cdot 140} =$$

$$= \frac{(10,4 + 8,1 - 6,5)(10,4 + 8,1 + 6,5) : 0,025}{(25,08 - 1,08)^2 - 24 \cdot 14}$$

$$= \frac{300 \cdot 0,025}{24(24-14)} = \frac{12000}{240} = 50$$

$$2. \begin{cases} 25x + 18y = 75 & | 4 \\ 35x + 38y = 105 & | 5 \end{cases}$$

$$\begin{cases} 135x + 426y = 525 & | 2 \\ 135x + 190y = 525 & | 1 \end{cases}$$

$$\begin{aligned} 25x + 18 \cdot 0 &= 75 \\ 25x &= 75 \\ x &= 3 \end{aligned}$$

$$\begin{aligned} -64y &= 0 \\ y &= 0 \end{aligned}$$

Jawab:  $x=3, y=0$

$$3. (3x+4)(3x-4) - (3x+5)^2 = -11$$

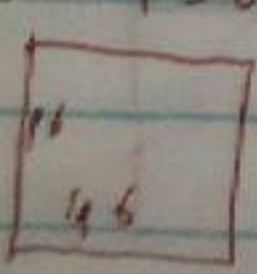
$$9x^2 - 16 - 9x^2 - 30x - 25 = -11$$

$$-30x = -11 + 41$$

$$-30x = 30$$

$$x = -1$$

Jawab:  $x = -1$

$$4. P = 64 \quad 64 : 4 = 16 \quad a = 16$$


$$S_b = a^2 = 16^2 = 256$$

Jawab:  $256 \text{ m}^2$

$$5. \begin{aligned} x + x + 32^\circ &= 180^\circ \\ 2x &= 148^\circ \\ x &= 74^\circ \end{aligned}$$

$$74^\circ + 32^\circ = 106^\circ$$

Jawab:  $106^\circ$

Arak himovchiyozbek



# 17-BILET

$$\begin{cases} 5(x+2y) - 3 = x + 5 \\ 4(x-3y) - 50 = -y \end{cases}$$

$$\begin{aligned} 5x + 10y - 3 &= x + 5 \\ 4x - 12y - 50 &= -y \end{aligned}$$

$$\begin{aligned} 4x + 10y &= 8 \\ 4x - 11y &= 50 \end{aligned}$$

$$\begin{aligned} 21y &= 42 \\ y &= -2 \end{aligned}$$

$$\begin{cases} 5x + 10y - x = 8 \\ 4x - 12y + y = 50 \end{cases}$$

$$\begin{aligned} 4x + 10 \cdot (-2) &= 8 \\ 4x &= 8 + 20 \\ 4x &= 28 \\ x &= 7 \end{aligned}$$

Jawab:  $x=7$ ;  $y=-2$

$$\frac{0,6^2 - 9 \cdot 0,2 + 0,1^2}{1,5 - 3,5^2} = \frac{0,6^2 - 2 \cdot 0,6 \cdot 0,1 + 0,1^2}{1,5(1 - 1,5)}$$

$$\frac{(0,6 - 0,1)^2}{-1,5 \cdot 0,5} = \frac{0,5^2}{0,5^2 \cdot 3} = \frac{1}{3}$$

$$(x-1)(x+1) = x^2 - 2(x-3)$$

$$x^2 - 1 = x^2 - 2x + 6$$

$$2x = 7$$

$$x = 3,5$$

Jawab:  $x=3,5$

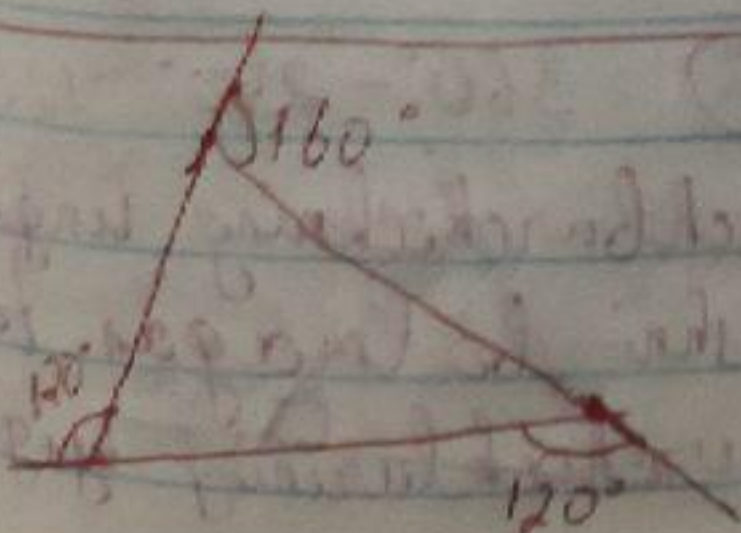
$$x + x - 24^\circ = 180^\circ$$

$$2x = 204^\circ$$

$$x = 102^\circ$$

$$102^\circ - 24^\circ = 78^\circ$$

Jawab:  $78^\circ$



$$160^\circ + 120^\circ = 280^\circ$$

$$360^\circ - 280^\circ = 80^\circ$$

Jawab:  $80^\circ$

Diketahui - jawaban - 11 titik

Diketahui - jawaban - 11 titik



# 18-BILET

$$1) \begin{cases} 5(x-3y) - 26 = 2x + 1 \\ 3(x-6y) + 4 = 9y + 19 \end{cases} \rightarrow \begin{cases} 5x - 15y - 2x = 27 \\ 3x - 18y - 9y = 15 \end{cases}$$

$$\begin{cases} 3x - 15y = 27 \\ 3x - 27y = 15 \end{cases}$$

$$\begin{cases} x - 5y = 9 \\ x - 9y = 5 \end{cases}$$

$$\begin{aligned} x - 5 &= 9 \\ x &= 14 \end{aligned}$$

$$4y = 4$$

$$y = 1$$

Jawab:  $x = 14$ ;  $y = 1$

$$2) \frac{5n+3}{2} - \frac{3n-4}{2} = \frac{5n+3+3n-4}{2} = \frac{8n-1}{2}$$

$$= 2 \quad \frac{8n-1-4n-1}{2} = 2 \quad \frac{4n-2}{2} = 2 \quad n = 2$$

$$\frac{4 \cdot 2 - 2}{2} = 2 \quad \frac{8 - 2}{2} = 3$$

Jawab: 32

$$3) \frac{3(x-11)}{4} = \frac{3(x+1)}{5} - \frac{2(2x-5)}{11}$$

$$220 \cdot \frac{3(x-11)}{4} = 220 \cdot \frac{3(x+1)}{5} - 220 \cdot \frac{2(2x-5)}{11}$$

$$165(x-11) = 132(x+1) - 40(2x-5)$$

$$165x - 1815 = 132x + 132 - 80x + 200$$

$$113x = 2147$$

$$x = 19$$

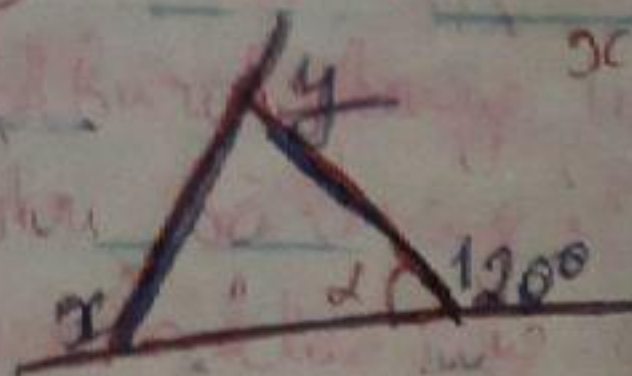
Jawab:  $x = 19$

$$4) 360^\circ - 256^\circ = 104^\circ$$

$$180^\circ - 104^\circ = 76^\circ$$

Jawab:  $104^\circ$

$$5) \begin{aligned} 360^\circ - 240^\circ &= 120^\circ \\ x + y &= 240^\circ \end{aligned}$$



$$\angle = 180^\circ - 120^\circ = 60^\circ$$

@intihon\_jawab\_lari\_5\_11singlar

~~104°  
76°  
104°~~



# 19-BILET

$$\begin{cases} 4x - 4y = 24 & |3| \\ 3x + 2y = 0,5 & |4| \end{cases}$$

$$\begin{cases} 12x - 12y = 72 \\ -12x + 8y = 2 \\ -20y = 70 \end{cases}$$

$$4x - 4 \cdot (-3,5) = 24$$

$$4x + 14 = 24$$

$$4x = 10$$

$$x = 2,5$$

$$y = -3,5$$

Jawab:  $x = 2,5, y = -3,5$

$$\frac{2^{3n-5} \cdot 2^{3n+2}}{2^{4n-2}} = \frac{2^{8n-1}}{2^{4n-1} \cdot 4n+1} = 2^{4n} = 2^{4n} = 2^{4n} = 2^{4n}$$

$$\therefore n = \frac{1}{4}$$

$$5x^2 - 10x + (x-2) = 0$$

$$b^2 - 4ac = 81 + 40 = 121 > 0$$

$$5x^2 - 10x + x - 2 = 0$$

$$x_{1,2} = \frac{9 \pm 11}{10}$$

$$5x^2 - 9x - 2 = 0$$

$$x_1 = \frac{9-11}{10} = -\frac{1}{5}$$

$$x_2 = \frac{9+11}{10} = 2$$

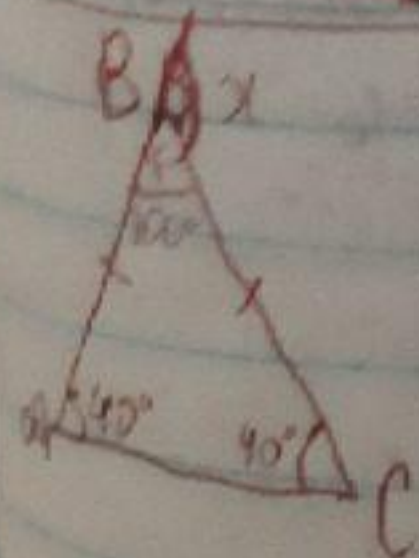
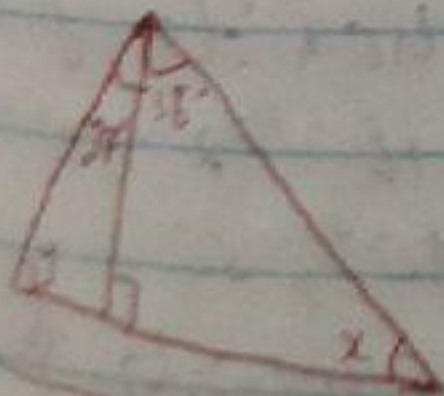
Jawab:  $-\frac{1}{5}; 2$

$$x = 90^\circ - 36^\circ = 54^\circ$$

$$y = 90^\circ - 27^\circ = 63^\circ$$

$$27^\circ + 36^\circ = 63^\circ$$

Jawab:  $63; 63^\circ, 54^\circ$



$$\begin{aligned} \angle ABC &= 180^\circ - (\angle A + \angle C) \\ &= 180^\circ - (40^\circ + 40^\circ) = 180^\circ - 80^\circ \\ &= 100^\circ \end{aligned}$$

$$x = \angle B = 180^\circ - 100^\circ = 80^\circ$$

Jawab:  $80^\circ$

Drahtschlüssel



# 20-BILET

$$1) \begin{cases} 4x + 4y = 29 \\ 5x + 2y = 19 \end{cases} \quad | \cdot 2 |$$

$$\begin{cases} 4x + 4y = 29 \\ -10x + 4y = 38 \\ \hline -3x = -9 \\ x = 3 \end{cases}$$

$$\begin{aligned} 5 \cdot 3 + 2y &= 19 \\ 15 + 2y &= 19 \\ 2y &= 4 \\ y &= 2 \end{aligned}$$

Jawab:  $x=3; y=2$

$$2) \frac{9 \cdot 3 \cdot 2}{2} = \frac{54}{2} = 27 \quad 3 \cdot 3 \cdot 2 = 18 \text{ sil}$$

$$3) \begin{aligned} 3x^2 + 12x - (x+4) &= 0 \\ 3x^2 + 12x - x - 4 &= 0 \\ 3x^2 + 11x - 4 &= 0 \end{aligned}$$

$$b^2 - 4ac = 121 + 48 = 169 > 0$$

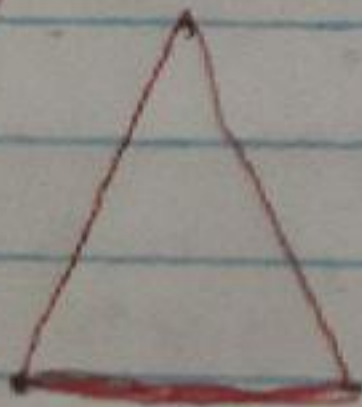
$$x_{1,2} = \frac{-11 \pm 13}{2}$$

$$x_1 = \frac{-11 - 13}{2} = -12$$

$$x_2 = \frac{-11 + 13}{2} = 1$$

Jawab:  $-12; 1$

4)



1)  $80^\circ$  li buxhat uchida bāla  
 $180^\circ - 80^\circ = 100^\circ$        $100^\circ : 2 = 50^\circ$

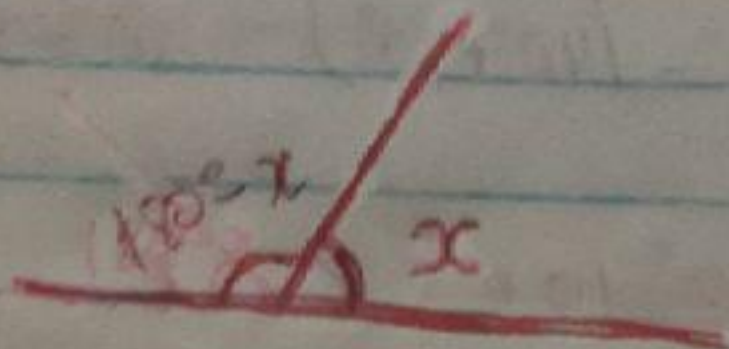
Jawab:  $50^\circ, 50^\circ, 80^\circ$

2)  $80^\circ$  li buxhat asosida bāla  
 $80^\circ + 80^\circ = 160^\circ$

$$180^\circ - 160^\circ = 20^\circ$$

Jawab:  $80^\circ, 80^\circ, 20^\circ$

5)



$$x = \frac{3}{7}(180 - x)$$

$$7x = 540 - 3x$$

$$10x = 540$$

$$x = 54$$

Jawab:  $54^\circ$

Qimtihon-jawoblar-i-5-11-sinf-lar



ollari bir xil

# 21-BILET, 22-BILET

$$\begin{cases} 7,5x - 11y = 1 & |2| \\ 5x - 8y = 3 & |3| \end{cases}$$

$$\begin{cases} 15x - 22y = 2 \\ -15x - 24y = 9 \end{cases}$$


---


$$2y = -7$$

$$y = -3,5$$

$$5x - 8(-3,5) = 3$$

$$5x + 28 = 3$$

$$5x = -25$$

$$x = -5$$

Jawab:  $x = -5; y = -3,5$

$$\frac{(51,3^2 - 11,3^2)}{113,9^2 - 73,9^2} = \frac{(51,3 - 11,3)(51,3 + 11,3)}{(113,9 - 73,9)(113,9 + 73,9)} = \frac{40 \cdot 62,6}{40 \cdot 187,8}$$

$$\frac{1}{3}$$

$$(x^2 + 7x) - 4x - 28 = 0$$

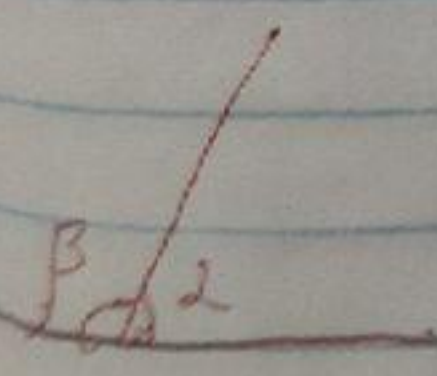
$$x^2 + 3x - 28 = 0$$

$$x_1 + x_2 = -3 \quad x_1 = -7$$

$$x_1 \cdot x_2 = -28 \quad x_2 = 4$$

Jawab:  $-7; 4$

*Amak himmatidoyor*



$$\frac{a}{b} = \frac{2}{7}$$

$$2x + 7x = 180^\circ$$

$$9x = 180^\circ$$

$$x = 20^\circ$$

$$2 \cdot 20^\circ = 40^\circ$$

$$7 \cdot 20^\circ = 140^\circ$$

$$140^\circ + 40^\circ = 180^\circ$$

Jawab:  $100^\circ$

$$r = 3,2 \text{ m}$$

$$d = 2r = 2 \cdot 3,2 = 6,4 \text{ m}$$



## 23-BILET

$$\begin{cases} 3x + 2y = 3 & | 4 \\ -4x + 3y = -38 & | 3 \end{cases}$$

$$\begin{cases} 12x + 8y = 12 \\ -12x + 9y = -114 \\ \hline 17y = -102 \\ y = -6 \end{cases}$$

$$3x + 2(-6) = 3$$

$$3x = 15$$

$$x = 5$$

javob:  $x = 5, y = -6$

$$\sqrt{18} + \sqrt{50} - \sqrt{72} = 3\sqrt{2} + 5\sqrt{2} - 6\sqrt{2} = 2\sqrt{2}$$

$$(x^2 + 7x) - 4x - 28 = 0$$

$$x^2 + 3x - 28 = 0$$

viyet teoremaniga kora

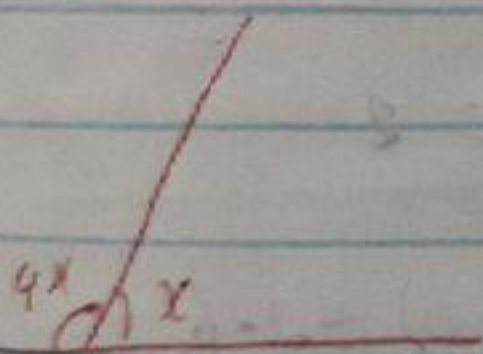
$$x_1 + x_2 = -3$$

$$x_1 = -7$$

$$x_1 \cdot x_2 = -28$$

$$x_2 = 4$$

Javob:  $-7; 4$



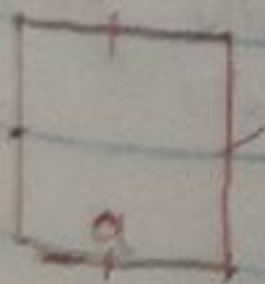
$$x + 4x = 180^\circ$$

$$36^\circ \cdot 4 = 144^\circ$$

$$5x = 180^\circ$$

$$x = 36^\circ$$

Javob:  $36^\circ, 144^\circ$



$$S_1 = a^2$$

$$a + 0,25a = 1,25a$$

$$S_2 = (1,25a)^2 = 1,5625 a^2$$

Arakimov diyor tek



# 24-BILET

$$1) \begin{cases} 10x - 6y = 2 \\ 9x - 2y = 12 \end{cases} \quad | \cdot 3 |$$

$$\begin{array}{r} 10x - 6y = 2 \\ -27x - 6y = 36 \\ \hline -17x = -34 \\ x = 2 \end{array}$$

$$\begin{array}{r} 10 \cdot 2 - 6y = 2 \\ 20 - 6y = 2 \\ 6y = 18 \\ y = 3 \end{array}$$

Jawab:  $x=2, y=3$

$$2) \frac{4n+3}{3} \cdot 3 = \frac{3n-2}{3} \cdot 3 = 3 \quad \frac{7n+1}{3} = 3 \quad \frac{7n+1-2n+1}{3} = 3$$

$$n = \frac{1}{5} \quad \frac{5n+2}{3} = 3 \quad \frac{5 \cdot \frac{1}{5} + 2}{3} = 3 = 27$$

$$3) \frac{9x-5}{2} - \frac{3+5x}{3} - \frac{8x-2}{4} = 2$$

$$3(9x-5) - 2(3+5x) - 2(4x-2) = 2 \cdot 6$$

$$27x - 15 - 6 - 10x - 8x + 4 = 12$$

$$27x - 27x - 18 = 12$$

$$-18 \neq 12$$

Tenglama yeching  
egri emas

$$4) \frac{11x}{25} \cdot x$$

$$\frac{11x}{25} + x = 180^\circ$$

$$11x + 25x = 4500$$

$$36x = 4500$$

$$x = 125^\circ$$

Jawab:  $55^\circ$  or  $125^\circ$

$$5) \begin{array}{l} 5x \cdot 6x = 3000 \\ 30x^2 = 3000 \\ x^2 = 100 \\ x = 10 \end{array}$$

$$5 \cdot 10 = 50$$

$$6 \cdot 10 = 60$$

$$P = 2(50 + 60) = 2 \cdot 110 = 220$$



# 25-BILET

$$\begin{cases} 2x - \frac{1}{5}y = \frac{2}{5} & | \cdot 5 \\ \frac{3}{4}x - \frac{1}{6}y = 1 & | \cdot 36 \end{cases}$$

$$\begin{cases} 10x - 6y = 2 \\ -27x - 6y = 36 \\ \hline -17x = -34 \\ x = 2 \end{cases}$$

~~$$2x - \frac{1}{5}y = \frac{2}{5}$$~~

$$10 \cdot 2 - 6y = 2$$

$$20 - 6y = 2$$

$$-6y = -18$$

$$y = 3$$

Jawab:  $x=2, y=3$

$$n=6$$

$$P_n = ?$$

$$P_n = 6! = 1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 \cdot 6 = 720$$

$$18 \left( \frac{x}{15} - \frac{1}{3} \right) = x + 1$$

$$\frac{6x}{5} - 6 = x + 1$$

$$6x - 30 = 5x + 5$$

$$x = 35$$

Jawab: 35

@rakhimovdiyorbek

$$4x \cdot x = 400$$

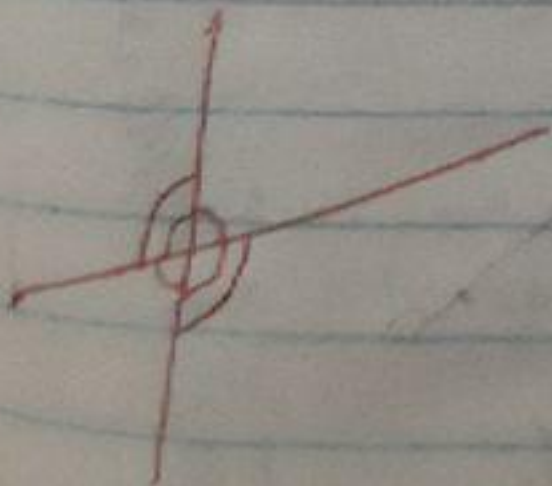
$$4x^2 = 400$$

$$x^2 = 100$$

$$x = 10$$

$$4 \cdot 10 = 40$$

$$P = 2(10 + 40) = 100$$



$$360^\circ - 265^\circ = 95^\circ$$

$$180^\circ - 95^\circ = 85^\circ$$

Jawab:  $85^\circ, 95^\circ, 85^\circ, 95^\circ$



# 26-BILET

$$1) \begin{cases} 2x + 3y = 50 \\ 16x + 19y = 350 \end{cases} \quad | \cdot 8 | \quad \begin{cases} 16x + 24y = 400 \\ 16x + 19y = 350 \end{cases}$$

$$2x + 3 \cdot 10 = 50$$

$$2x = 20$$

$$x = 10$$

Jawab:  $x = 10, y = 10$

$$2) 1, 2, 3, 4.$$

turli 3 xonalison-?

$$4 \cdot 3 \cdot 2 = 24 \text{ ta.}$$

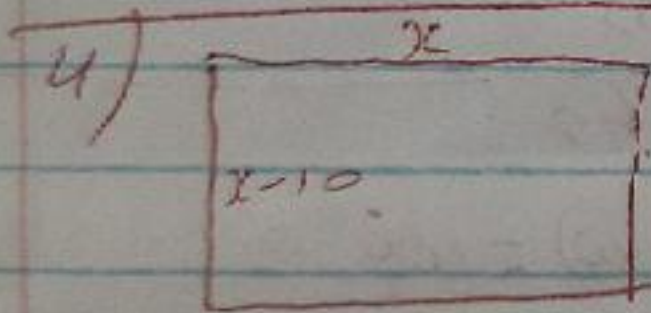
$$3) 0,3(2x-5) + 2(0,5x+3) = 0,4(4x-7) + 7,2$$

$$0,6x - 1,5 + x + 6 = 1,6x - 2,8 + 7,2$$

$$1,6x - 1,6x = 4,4 - 4,5$$

$$0 \neq -0,1$$

inglamaga yechimga ega emas



$$2(x+x-10) = 60$$

$$2x - 10 = 30$$

$$2x = 40$$

$$x = 20$$

$$S = 20 \cdot 10 = 200 \text{ m}^2$$

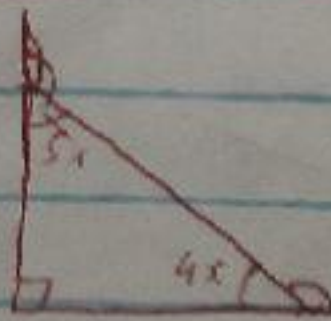
$$5) 4x + 5x = 90^\circ$$

$$9x = 90^\circ$$

$$x = 10^\circ$$

$$4 \cdot 10 = 40^\circ$$

$$5 \cdot 10 = 50^\circ$$



$$180^\circ - 40^\circ = 140^\circ$$

$$180^\circ - 50^\circ = 130^\circ$$

Jawab:  $130^\circ, 140^\circ$

@rakhiinosolijorbek

@rakhiinosolijorbek



# 27-BILET

$$2300 \cdot 0,15 = 345$$

$$x + 0,15x = 2645$$

$$1,15x = 2645$$

$$x = 2300$$

Jawab: 345, 2300

$$\frac{40,7^2 - 40,6^2}{32,3^2 - 5,2^2} = \frac{(40,7 - 40,6)(40,7 + 40,6)}{(32,3 - 5,2)(32,3 + 5,2)} = \frac{0,1 \cdot 81,3}{27,1 \cdot 37,5} =$$

$$\frac{1}{32375} = \frac{1}{1125}$$

$$\frac{4x - 51}{3} - \frac{17 - 3x}{4} = \frac{x + 5}{2}$$

$$4(4x - 51) - 3(17 - 3x) = 12(x + 5)$$

$$16x - 204 - 51 + 9x = 12x + 60$$

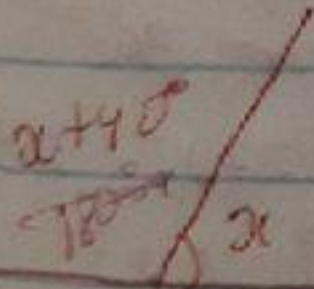
$$13x = 60 + 255$$

$$13x = 315$$

$$x = 25$$

Jawab:  $x = 25$

Dintihon-jawobları 5-11 nifas



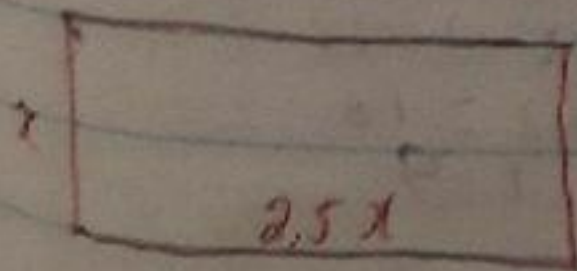
$$x + x + 40^\circ = 180^\circ$$

$$2x = 140^\circ$$

$$x = 70^\circ$$

$$70^\circ + 40^\circ = 110^\circ$$

Jawab:  $70^\circ, 110^\circ$



$$(x + 2,5x) \cdot 2 = 14$$

$$3,5x = 7$$

$$x = 2$$

$$2 \cdot 2,5 = 5$$

$$S = 5 \cdot 2 = 10 \text{ m}^2$$

Jawab:  $10 \text{ m}^2$



# 28-BILET

1) I u  
x 0,35x

$$x - 0,35x = 169$$

$$0,65x = 169$$

$$x = 260$$

$$0,35 \cdot 260 = 91$$

Jawab: 260, 91

2) 5, 6, 7, 8

turli 3 xohali son-

$$4 \cdot 3 \cdot 2 = 24 \text{ ta}$$

3)  $6,4(2-3x) = 6(0,8x-1) + 6,8$

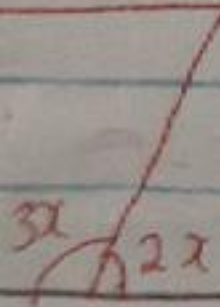
$$12,8 - 19,2x = 4,8x - 6 + 6,8$$

$$-24x = -12$$

$$x = \frac{1}{2}$$

Jawab:  $x = \frac{1}{2}$

4)



$$2x + 3x = 180^\circ$$

$$5x = 180^\circ$$

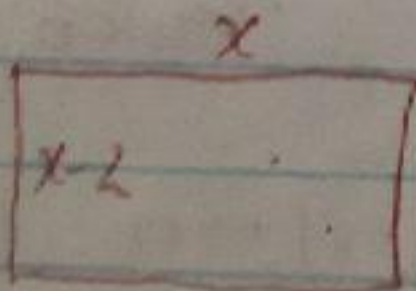
$$x = 36^\circ$$

~~$$2 \cdot 36^\circ$$~~

$$36^\circ \cdot 2 = 72^\circ \quad 3 \cdot 36^\circ = 118^\circ$$

Jawab:  $72^\circ, 118^\circ$

5)



$$2(x+x-2) = 32$$

$$2x-2 = 16$$

$$2x = 18$$

$$x = 9$$

$$9-2 = 7$$

Jawab: 9dm, 7dm

@Drakhimovdijonbek



# 29-BILET

$$\begin{cases} 5x - 4y = 13 \\ 2x - y = 4 \end{cases} \cdot 4$$

$$\begin{cases} 5x - 4y = 13 \\ -8x - 4y = 16 \end{cases}$$

$$\begin{aligned} -3x &= -3 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} 2 - y &= 4 \\ 2 - y &= 4 \\ y &= -2 \end{aligned}$$

Javob:  $x=1, y=-2$ .

1, 2, 3, 4

turli axonal son.

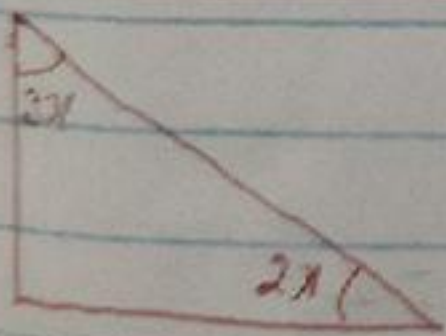
$$4 \cdot 3 = 12 \text{ ta}$$

$$8(1,3x + 0,25) - 6,6x = 3,8x + 2$$

$$10,4x + 2 - 6,6x = 3,8x + 2$$

$$3,8x + 2 = 3,8x + 2$$

Tenglama cheksiz kōp yechimga ega



$$2x + 3x = 90^\circ$$

$$5x = 90^\circ$$

$$x = 18^\circ$$

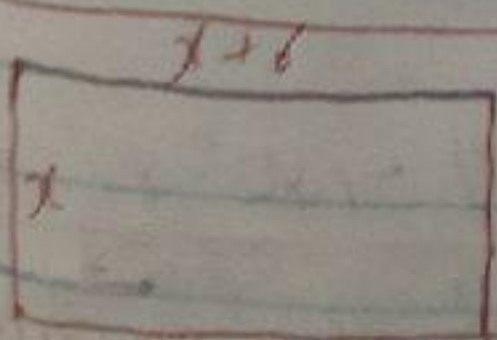
$$2 \cdot 18^\circ = 36^\circ$$

$$3 \cdot 18^\circ = 54^\circ$$

$$180^\circ - 36^\circ = 144^\circ$$

$$180^\circ - 54^\circ = 136^\circ$$

Javob:  $136^\circ, 144^\circ$



$$2(x + x + 6) = 60$$

$$2x + 6 = 30$$

$$2x = 24$$

$$x = 12$$

$$S = 12 \cdot 18 = 216$$

Javob:  $216 \text{ sm}^2$

Qimmatlikon Javoblarini 5-riqibalar



# 30-BILET

$$1) \sqrt{121 \cdot 0,04 \cdot 289} = 11 \cdot 0,2 \cdot 17 = 37,4$$

$$2) \left(1 - \frac{1}{2^2}\right) \left(1 - \frac{1}{3^2}\right) \left(1 - \frac{1}{4^2}\right) \dots \left(1 - \frac{1}{99^2}\right) \left(1 - \frac{1}{100^2}\right)^2$$

$$= \left(1 - \frac{1}{2}\right) \left(1 + \frac{1}{2}\right) \left(1 - \frac{1}{3}\right) \left(1 + \frac{1}{3}\right) \dots \left(1 - \frac{1}{99}\right) \left(1 + \frac{1}{99}\right) \left(1 - \frac{1}{100}\right) \left(1 + \frac{1}{100}\right)$$

$$= \frac{1}{2} \cdot \frac{3}{2} \cdot \frac{2}{3} \cdot \frac{4}{3} \cdot \frac{5}{4} \cdot \frac{3}{4} \dots \frac{98}{99} \cdot \frac{100}{99} \cdot \frac{99}{100} \cdot \frac{101}{100}$$

$$= \frac{1}{2} \cdot \frac{101}{100} = \frac{101}{200}$$

$$3) 6(1,2x - 0,5) - 1,3 = 5,9x - 3$$

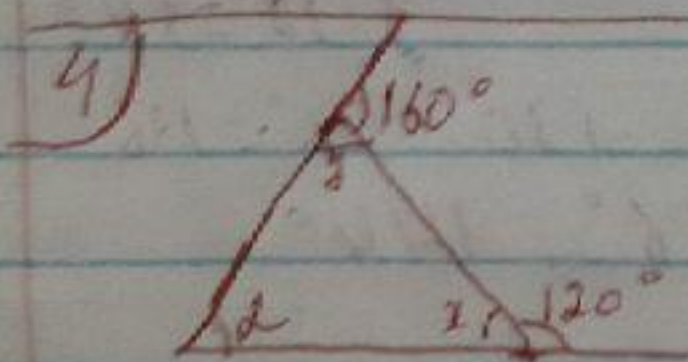
$$7,2x - 3 - 1,3 = 5,9x - 3$$

$$7,2x - 5,9x = 1,3$$

$$1,3x = 1,3$$

$$x = 1$$

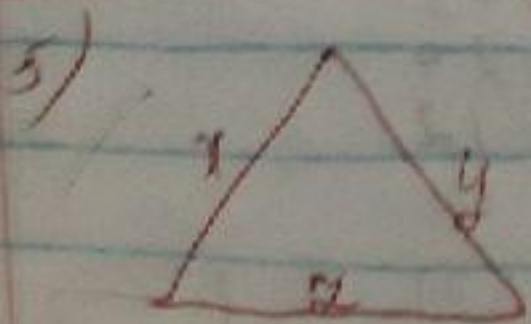
Жауоб:  $x = 1$



$$y = 180^\circ - 160^\circ = 20^\circ$$

$$x = 180^\circ - 120^\circ = 60^\circ$$

$$z = 180^\circ - (x + y) = 180^\circ - (20^\circ + 60^\circ) = 180^\circ - 80^\circ = 100^\circ$$



P. 27

$$\begin{cases} x + 14 = y + 2 \\ y + 16 = x + 2 \\ z + 24 = x + y \end{cases}$$

$$(27 - 14 = 13)$$

$$\begin{cases} y + 2 = 14 \\ x + 2 = 16 \\ x + y = 24 \end{cases}$$

$$\begin{aligned} 2(x + y + z) &= 34 \\ x + y + z &= 17 \end{aligned}$$