

1

$$\frac{42}{5} = 8,4$$

2

2.1	215	2.2	7,35
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3

$$3.1 \quad \left(-\frac{1}{6}\right) \cdot \frac{7}{18} - \frac{1}{18} \cdot \left(-\frac{1}{2}\right) = -\frac{1}{6} \cdot \frac{18}{7} + \frac{1}{18} \cdot \frac{2}{1} = -\frac{3}{7} + \frac{1}{9} = \frac{-27+7}{63} = \underline{\underline{-\frac{20}{63}}}$$

$$3.2 \quad \sqrt{\frac{5}{100} - 0,01} \cdot \sqrt{10^2 - 6^2} - (-\sqrt{2})^2 = 0,2 \cdot 8 - 2 = 1,6 - 2 = \underline{\underline{-\frac{4}{5}}}$$

4

$$4.1 \quad (3a - 4)^2 = \underline{\underline{9a^2 - 24a + 16}}$$

$$4.2 \quad (4y - 3) \cdot (-2y) = \underline{\underline{-14y^2 + 6y}}$$

$$4.3 \quad (4+x)(3-2x) - (1-2x)(1+2x) = 12 - 5x - 2x^2 - (1 - 4x^2) = \\ = 12 - 5x - 2x^2 - 1 + 4x^2 = \underline{\underline{2x^2 - 5x + 11}}$$

5

5.1

$$\frac{4}{3} m$$

5.2

$$18$$

5.3

$$2:1$$

6

$$6.1 \quad 0,4x - \frac{1}{3} = -\frac{2}{3} + \frac{2}{5}x$$

$$-\frac{1}{3} \neq -\frac{2}{3} \Rightarrow K = \emptyset \text{ (rovnice nemá řešení)}$$

$$6.2 \quad 5 - \frac{t+1}{2} = 4 + \frac{8-3t}{5} - \frac{5-7t}{10}$$

$$50 - 5t - 5 = 40 + 16 - 6t - 5 + 7t$$

$$-6t = 6$$

$$\underline{\underline{t = -1}}$$

$$\text{zk. } L = 5 - \frac{-1+1}{2} = \underline{\underline{5}}$$

$$P = 4 + \frac{8+3}{5} - \frac{5+7}{10} =$$

$$= 4 + \frac{22}{10} - \frac{12}{10} = \underline{\underline{5}}$$

7

7.1

12 švestek

7.2

42,9 %

8

$$8.1 \quad s = 16 \text{ cm}$$

$$a = \frac{1}{4}s = 4 \text{ cm}$$

$$\text{Sčítanec} = a^2 = 16 \text{ cm}^2$$

$$\text{Sčítanec} = 12 \text{ cm}^2$$

$$\frac{\text{Sčítanec}}{\text{Sčítanec}} = \frac{12}{16} = \frac{3}{4} \rightarrow \underline{\underline{75\%}}$$

8.2

$$\text{průřez } a_1 = 2 \text{ cm}$$

$$\text{výška } v = 1 \text{ cm}$$

$$V = a_1^2 \cdot v$$

$$V = 2^2 \cdot 1 \text{ cm}^3 = \underline{\underline{4 \text{ cm}^3}}$$

9

9.1

13 km

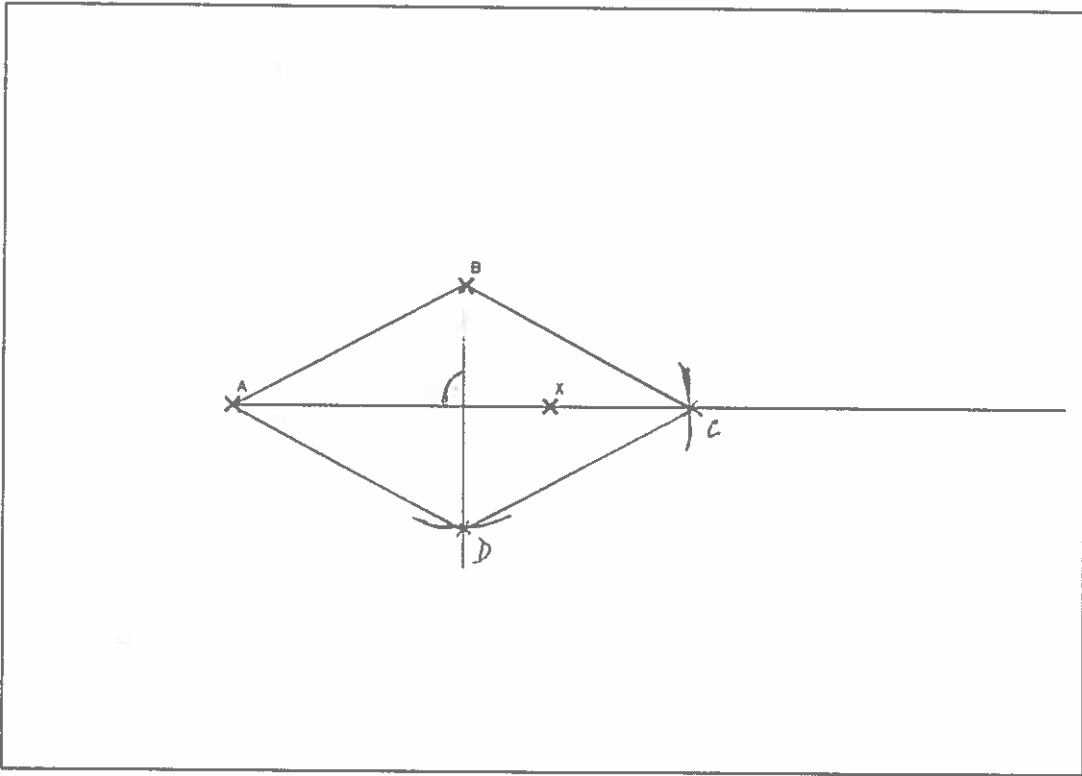
9.2

3 000 ha

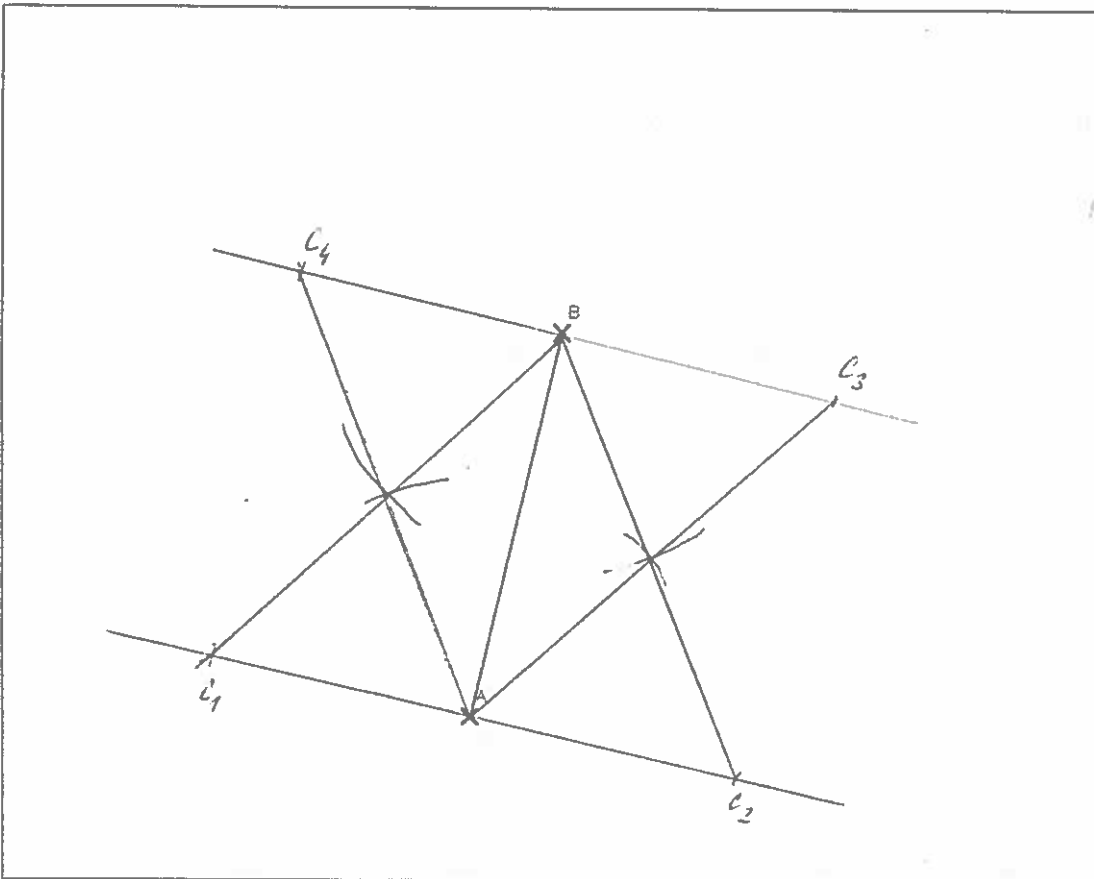
10

12 s

11



12



- 13    A    N  
13.1      
13.2      
13.3

- A    B    C    D    E  
14                 
15                 
16                 
17

- 18    A    B    C    D    E    F  
18.1                  
18.2                  
18.3