

PO1B

Ukol o. 1 | 1

1) $a = 10 \text{ dm}$, $b = 11,6 \text{ dm}$, $c = 14,4 \text{ dm}$

$$s = \sqrt{18(18-10)(18-11,6)(18-14,4)}^2 \quad \boxed{s} = 36 \text{ dm} \rightarrow p = 18 \text{ dm}$$

$$\boxed{S} = \sqrt{18 \cdot 8 \cdot 6,6 \cdot 3,6} = \sqrt{3317,76} = \underline{\underline{57,6 \text{ dm}^2}}$$

$$S = \frac{b \cdot r}{2}$$

$$\boxed{r} = \frac{2S}{b} = \frac{2 \cdot 57,6}{11,6} = \underline{\underline{9,93 \text{ dm}}}$$

$$\boxed{K} = \frac{a \cdot b \cdot c}{4S} = \frac{10 \cdot 11,6 \cdot 14,4}{4 \cdot 57,6} = \underline{\underline{7,25 \text{ dm}}}$$

$$\boxed{p} = \frac{S}{r} = \frac{57,6}{18} = \underline{\underline{3,2 \text{ dm}}}$$

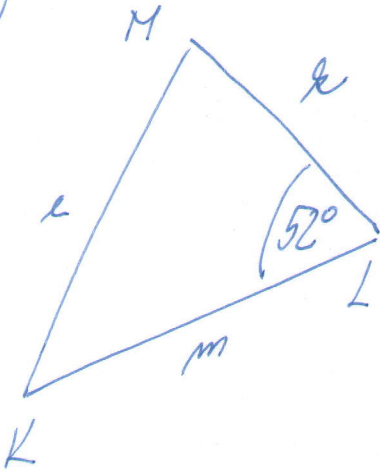
$$S = \frac{1}{2} a c \sin B$$

$$\sin B = \frac{2S}{a \cdot c} = \frac{2 \cdot 57,6}{10 \cdot 14,4} = 0,8$$

$$\boxed{B} = \underline{\underline{53^\circ \text{ P}'}} \quad 1 \quad \textcircled{6L}$$

14 - 16	1
15 - 13	2
12 - 8	3
7 - 4	4
3 - 0	5

(2f)



$$l^2 = k^2 + m^2 - 2km \cos 52^\circ$$

$$l^2 = 95^2 + 32^2 - 2 \cdot 95 \cdot 32 \cos 52^\circ$$

$$l^2 = 6305,48$$

$$l = \underline{\underline{79,4 \text{ cm}}}$$

$$s = \frac{95 + 32 + 79,4}{2} = \underline{\underline{103,2 \text{ cm}}}$$

$$S = \frac{1}{2} km \sin 52^\circ = \frac{1}{2} \cdot 95 \cdot 32 \cdot \sin 52^\circ = \underline{\underline{1194,48 \text{ cm}^2}}$$

$$r_m = \frac{2S}{m} = \frac{2 \cdot 1194,48}{32} = \underline{\underline{74,86 \text{ cm}}}$$

$$r = \frac{pm \cdot l \cdot k}{4S} = \frac{32 \cdot 79,4 \cdot 95}{4 \cdot 1194,48} = \underline{\underline{50,40 \text{ cm}}}$$

$$\rho = \frac{S}{r} = \frac{1194,48}{103,2} = \underline{\underline{11,6 \text{ cm}}}$$

(2a)

$$S = \frac{k \cdot r_k}{2}$$

$$r_k = \frac{2S}{k} = \frac{2 \cdot 42,8}{11,6} = \underline{\underline{9,3 \text{ cm}}}$$

(74)

PO13

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3)

$$r = 147 \text{ cm}$$

$$p = 45 \text{ cm}, \quad r = 38 \text{ cm}$$

$$r = p + r + r$$

$$147 = r + 45 + 38$$

škana

$$\rightarrow \boxed{r} = \underline{64 \text{ cm}}$$

$$r = \frac{147}{2} = 73,5 \text{ cm}$$

$$S = \frac{r \cdot \pi_0}{2}$$

$$840,5 = \frac{64 \cdot \pi_0}{2}$$

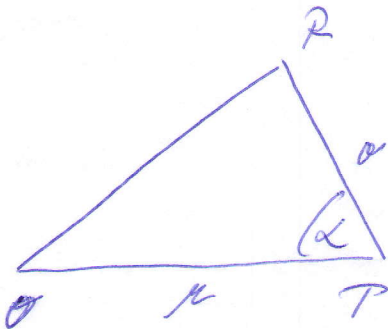
$$\pi_0 = \frac{840,5 \cdot 2}{64}$$

$$\pi_0 = \underline{26,27}$$

$$S = \sqrt{73,5(73,5-45) \cdot (73,5-64) \cdot (73,5-38)}$$

$$S = \sqrt{73,5 \cdot 28,5 \cdot 9,5 \cdot 35,5}$$

$$S = \underline{840,5 \text{ cm}^2}$$



$$S = \frac{1}{2} r r \sin \alpha$$

$$\sin \alpha = \frac{2S}{r r}$$

$$\sin \alpha = \frac{2 \cdot 840,5}{64 \cdot 38} = 0,6912$$

$$\alpha = \underline{43^\circ 44'}$$

(A1)