

C

2) Řešte trojúhelník KLM, je-li dáno: $k = 12, l = 8, |\angle KML| = 72^{\circ}15'$.

Kosinová věta:

$$m^2 = k^2 + l^2 - 2kl \cos 72^{\circ}15'$$

$$m = 12,2$$

$$\frac{m}{\sin 72^{\circ}15'} = \frac{k}{\sin \angle LKM}$$

$$\sin \angle LKM = \frac{\sin 72^{\circ}15'}{m} \cdot k$$

$$|\angle LKM| = 69^{\circ}31'$$

$$|\angle KLM| = 180^{\circ} - (72^{\circ}15' + 69^{\circ}31') = 38^{\circ}14'$$

Závěr:

$$k = 12, l = 8, m = 12,2$$

$$|\angle LKM| = 69^{\circ}31', \quad |\angle KLM| = 38^{\circ}14', \quad |\angle KML| = 72^{\circ}15'$$

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