VI.A – geometrie – 23.4.2020

86/1

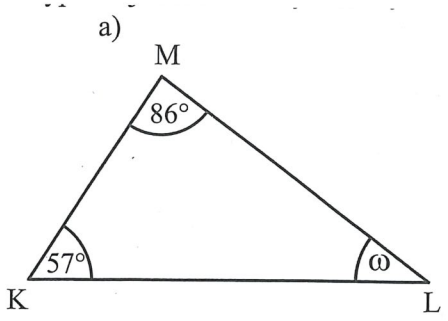
a) $\alpha+\beta+\gamma_1 = 15° + 84° + 81° = 180°$ → ANO

b) $\alpha+\beta+\gamma_1 = 90° + 34° + 56° = 180°$ → ANO

c) $\alpha+\beta+\gamma_1 = 45° + 45° + 90° = 180°$ → ANO

86/2

a)

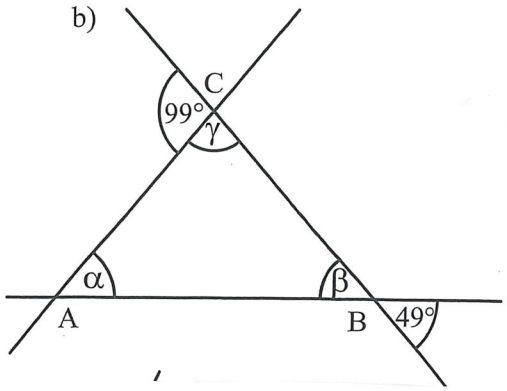


$\omega = 180° - 86° - 57°$

$\omega = 180° - 143°$

$\boxed{\omega = 37°}$

b)



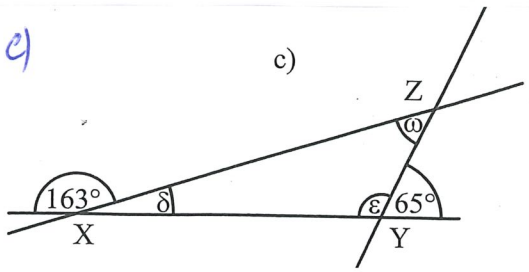
$\beta = 49°$ – vrcholové úhly

$\gamma_1 = 180° - 99° = 81°$ – vedlejší úhly

$\alpha = 180° - \beta - \gamma_1 = 180° - 49° - 81° =$

$= 180° - 130° = \boxed{50°}$

c)



$\delta = 180° - 163° = 17°$

$\varepsilon = 180° - 65° = 115°$

$\omega = 180° - \delta - \varepsilon = 180° - 17° - 115° = \boxed{48°}$

86/3

a) $\alpha+\beta = 74° + 38° = 112°$

$\gamma_1 = 180° - 112° = \boxed{68°}$

b) $\alpha+\beta = 23°41' + 56°12' = 79°53'$

$\gamma_1 = 180° - 79°53' = 179°60' - 79°53' = \boxed{100°7'}$

c) $\alpha+\beta = 74°53' + 69°38' = 146°91' = 144°31'$

$\gamma_1 = 180° - 144°31' = 179°60' - 144°31' = 32°29'$