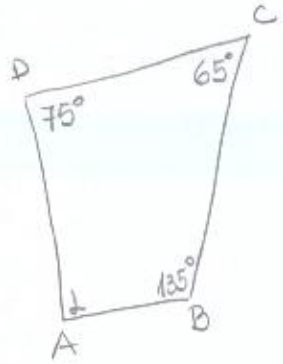
Rešitev D.N. str. 140

3.)

a.)



Vsota notranjih kotov v trikotniku je 360°.
Torej lahko četrti notranji kot izračunamo, če imamo podane ostale tri notranje kote.

$\alpha+\beta+\gamma+\delta = 360°$

Torej:

$\alpha = 360° - (\text{vsota ostalih treh notranjih kotov})$

$\alpha = 360° - (135° + 65° + 75°)$

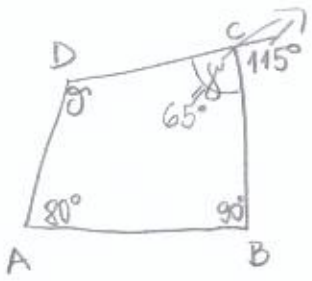
$\alpha = 360° - 275°$

$\alpha = 85°$

$360 - 275 = 85$

$135 + 65 + 75 = 275$

b.)



1. Izračunamo notranji kot γ.
Ker sta γ in 115° sokota (skupaj merita 180°):

$\gamma = 180° - 115°$

$\gamma = 65°$

$180° - 115° = 65°$

2.) $\gamma = 360° - (80° + 90° + 65°)$

$\gamma = 360° - 235°$

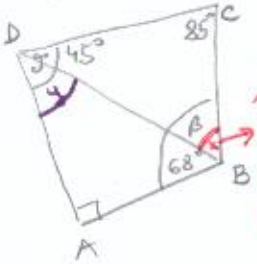
$\gamma = 125°$

$80 + 90 + 65 = 235$

$360° - 235° = 125°$

4.) ZMOREM TUDI TO

a)



1.) $\triangle BCD$

$x = 180° - (45° + 85°)$

$x = 180° - 130°$

$x = 50°$

2.) $\beta = 68° + x$

$\beta = 68° + 50°$

$\beta = 118°$

3.) $\triangle ABD$

$y = 180° - (90° + 68°)$

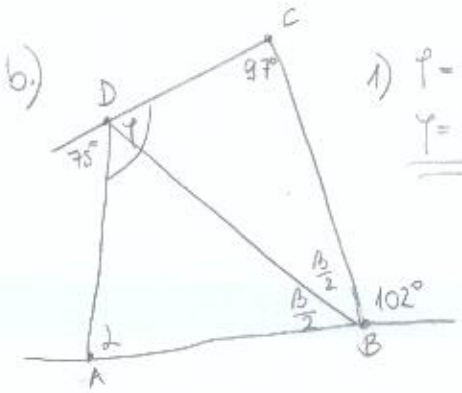
$y = 180° - 158°$

$y = 22°$

4.) $\delta = 22° + 45°$

$\delta = 67°$

b.)



1) $\gamma = 180° - 75°$

$\gamma = 105°$

2) $\beta = 180° - 102°$

$\beta = 78°$

$\frac{\beta}{2} = \frac{78°}{2} = 39°$

3.) $\alpha = 360° - (\beta + \gamma + \delta)$

$\alpha = 360° - (78° + 97° + 105°)$

$\alpha = 360° - 280°$

$\alpha = 80°$

$360° - 280° = 80°$

$78° + 97 + 105 = 280$