

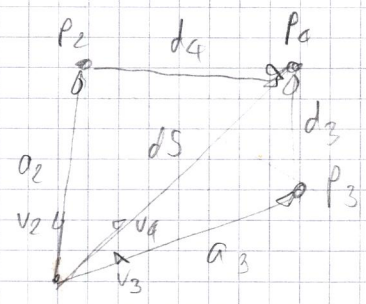
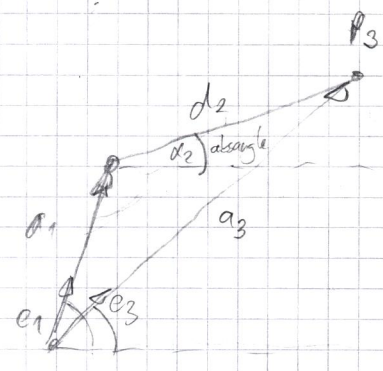
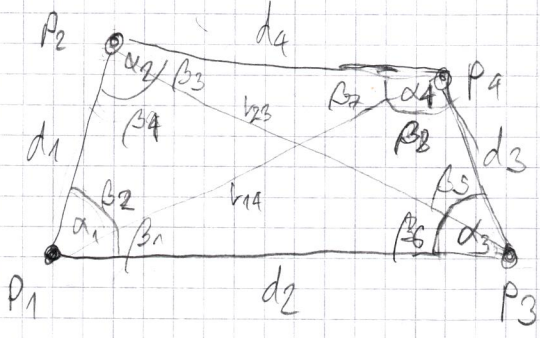
$$\alpha_1 = \beta_1 + \beta_2$$

$$\alpha_2 = \beta_3 + \beta_4$$

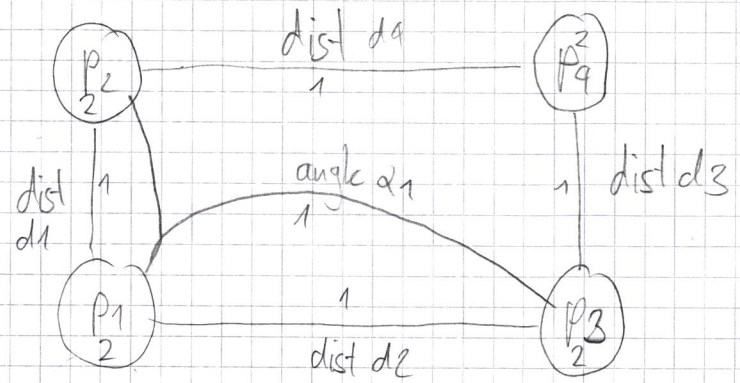
$$\alpha_3 = \beta_5 + \beta_6$$

$$\alpha_4 = \beta_7 + \beta_8$$

$$-\alpha_2 + \beta_3 + \beta_4 = 0$$



rigid planar figure:

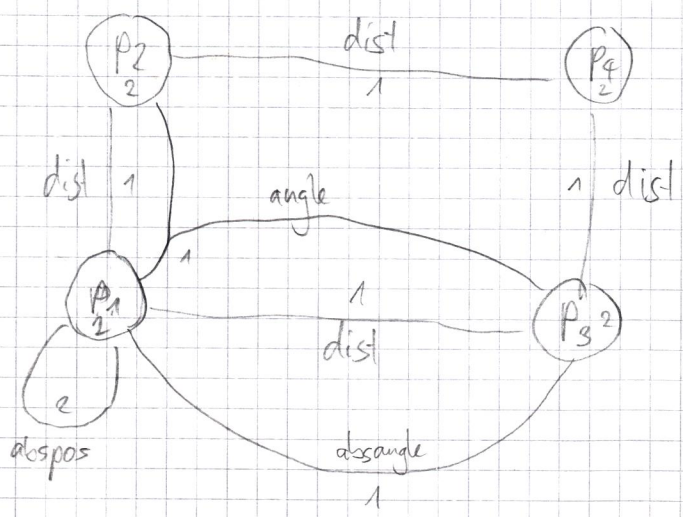


$$\sum w(v) = 8 = \sum w(v)$$

$$\sum w(e) = 5 = \sum w(e)$$

$$\sum w(v) - \sum w(e) = 3$$

fixed with respect to global coordinate system:



$$\sum w(v) - \sum w(e) = 8 - 8 = 0$$

