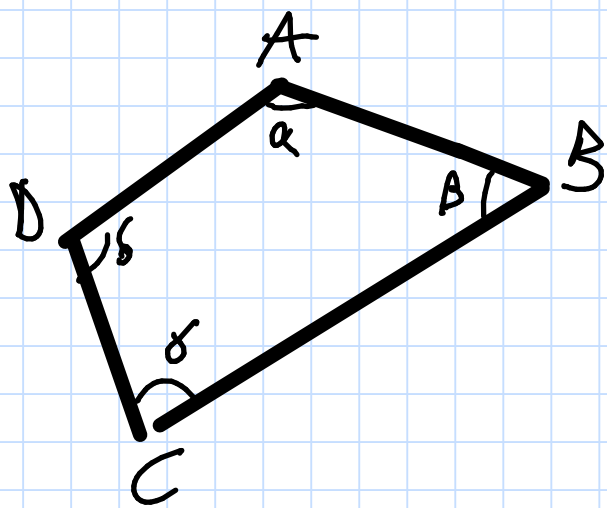


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SOMMA ANGOLI DI UN POLIGONO DI N LATI

$$S = 180^\circ(N-2)$$

Nel nostro caso  $N=4$

$$\Rightarrow S = 180 \cdot 2 = 360^\circ$$

$$\begin{cases} \alpha + \beta + \gamma + \delta = 360^\circ \\ \alpha = \frac{1}{2}\beta \\ \alpha - 6 = \frac{1}{5}\gamma \\ \delta = \beta + 40 \end{cases}$$

Sostituiremo nella prima eq le 2<sup>e</sup> e la 4<sup>e</sup>:

$$\frac{1}{2}\beta + \beta + \gamma + \beta + 40 = 360$$

dove ha solo  $\gamma$  e  $\beta$

Sostituendo la 2<sup>e</sup> nella 3<sup>e</sup>

$$\frac{1}{2}\beta - 6 = \frac{1}{5}\gamma \quad \text{idem}$$

Quindi

$$\begin{cases} \frac{1}{2}\beta + \gamma + \beta + 40 = 360 \\ \frac{1}{2}\beta - 6 = \frac{1}{5}\gamma \end{cases} \quad \begin{cases} \frac{5}{2}\beta + \gamma = 320 \\ \frac{1}{2}\beta - \frac{1}{5}\gamma = 6 \end{cases}$$

$$\begin{cases} 5\beta + 2\gamma = 640 \\ 5\beta - 2\gamma = 60 \end{cases} \quad (+)$$

$$10\beta = 700 \quad \rightarrow \beta = 70$$

$$\alpha = 35$$

$$\delta = 110$$