

## Esercizi sugli angoli

32)  $\alpha + \beta = 90^\circ \rightarrow$  I DUE ANGOLI SONO COMPLEMENTARI  
 $\beta = 12^\circ 25' 50''$

$$\alpha = 90^\circ - 12^\circ 25' 50''$$

$$\begin{array}{r} 89^\circ \\ 90^\circ \end{array} \quad \begin{array}{r} 59' \\ 59' \end{array} \quad \begin{array}{r} 60'' \\ 60'' \end{array} -$$

$$\begin{array}{r} 12^\circ \\ 12^\circ \end{array} \quad \begin{array}{r} 25' \\ 25' \end{array} \quad \begin{array}{r} 50'' \\ 50'' \end{array} =$$

$$\begin{array}{r} 77^\circ \\ 77^\circ \end{array} \quad \begin{array}{r} 34' \\ 34' \end{array} \quad \begin{array}{r} 10'' \\ 10'' \end{array}$$

$$\alpha = 77^\circ 34' 10''$$

33)  $\alpha + \beta = 90^\circ$  (Somma) (S)

$\alpha - \beta = 12^\circ$  (Differenza) (D)

$$\alpha = \frac{S+D}{2} = \frac{90^\circ + 12^\circ}{2} = \frac{102^\circ}{2} = 51^\circ$$

$$\beta = \frac{S-D}{2} = \frac{90^\circ - 12^\circ}{2} = \frac{78^\circ}{2} = 39^\circ$$

34)  $\alpha + \beta = 180^\circ \rightarrow$  SONO SUPPLEMENTARI

$$\alpha = 3 \cdot \beta$$

$$\beta \quad | \quad |$$

$$\alpha \quad | \quad | \quad | \quad |$$

$$\beta = 180^\circ : 4 = 45^\circ$$

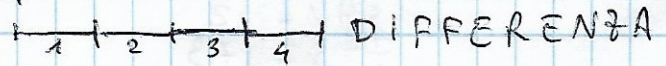
$$\alpha = 3 \cdot 45^\circ = 135^\circ$$



$$35) \quad \alpha - \beta = 18^\circ$$

$$\alpha = 5\beta$$

$$\beta = 18^\circ : 4 \quad (\text{i pezzi della differenza})$$



$$\beta = 18^\circ : 4$$

$$\begin{array}{r} 18^\circ \int 120'' \\ \underline{16} \\ 2^\circ \end{array} \quad \left| \begin{array}{r} 4 \\ \hline 4^\circ 30'' \end{array} \right.$$

$$\beta = 4^\circ 30'$$

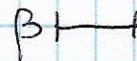
$$\alpha = 5 \cdot 4^\circ 30' = 20^\circ 150' = 20^\circ + 2^\circ 30' = 22^\circ 30'$$

Per fare queste operazioni guardate

p. 543 e p. 565 esercizi svolti n° 184 e 195

$$36) \quad \alpha + \beta = 180^\circ \rightarrow \text{SONO ADIACENTI}$$

$$\alpha = 4 \cdot \beta$$

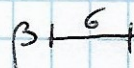
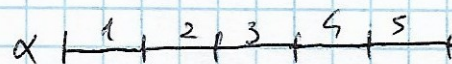


$$\beta = 180^\circ : 5 = 36^\circ$$

$$\alpha = 4 \cdot 36^\circ = 144^\circ$$

$$37) \quad \alpha + \beta = 90^\circ \rightarrow \text{SONO COMPLEMENTARI}$$

$$\alpha = 5 \cdot \beta$$



$$\beta = 90^\circ : 6 = 15^\circ$$

$$\alpha = 15^\circ \cdot 5 = 75^\circ$$