

Lista de Exercícios - Aula 18

dista de Exercícios

5 -

$$60^\circ + x = 180^\circ$$

$$x = 180^\circ - 60^\circ$$

$$\boxed{x = 120^\circ}$$

Alternativa C

6 -

$$60^\circ + 90^\circ + x = 180^\circ$$

$$x = 180^\circ - 60^\circ - 90^\circ$$

$$x = 180^\circ - 150^\circ$$

$$\boxed{x = 30^\circ}$$

Alternativa B

3 -

$$2a + a = 180^\circ$$

$$3a = 180^\circ$$

$$a = \frac{180^\circ}{3}$$

$$a = 60^\circ$$

$$x + a = 180^\circ$$

$$x + 60^\circ = 180^\circ$$

$$x = 180^\circ - 60^\circ$$

$$\boxed{x = 120^\circ}$$

Alternativa D

4-

\* Ângulos internos de um quadrilátero  
somam  $360^\circ$ .

$$80^\circ + 150^\circ + y + 40^\circ = 360^\circ$$

$$y = 360^\circ - 80^\circ - 150^\circ - 40^\circ$$

$$y = 360^\circ - 270^\circ$$

$$y = 90^\circ$$

$\rightarrow x \text{ e } y \text{ Suplementares} : y + x = 180^\circ$

$$90^\circ + x = 180^\circ$$

$$x = 180^\circ - 90^\circ \rightarrow x = 90^\circ$$

5- Ângulo =  $x$  / Seu suplemento =  $180 - x$

$$x = \frac{5}{4} \cdot (180 - x)$$

$$x = \frac{900 - 5x}{4}$$

$$\left. \begin{array}{l} 4x = 900 - 5x \\ 4x + 5x = 900 \\ 9x = 900 \\ x = \frac{900}{9} \\ x = 100^\circ \end{array} \right\}$$

Alternativa A

6- Ângulo =  $x$  / Seu complemento:  $90^\circ - x$

$$x = \frac{90 - x}{2} \rightarrow 2x = 90 - x$$

$$2x + x = 90$$

$$3x = 90$$

$$x = \frac{90}{3} \rightarrow x = 30^\circ$$

Alternativa A

7.  $\text{Angulo} = x$  / Complemento =  $90^\circ - x$  / Suplemento =  $180^\circ - x$

$$3 \cdot (90 - x) = 180 - x$$

$$8x = 630$$

$$x = \frac{630}{8}$$

$$x = 78,75$$

$$3 \cdot 3(90 - x) = 180 - x$$

$$9(90 - x) = 180 - x$$

$$810 - 9x = 180 - x$$

$$9x - x = 810 - 180$$

$$78^\circ (0,75,60)$$

$$78^\circ 45'$$

Alternative  
E