

Tarefa básica - Polígonos

$$1. Si = (n-2) \cdot 180 \quad Ai = \frac{1800}{12} = 150^\circ, \quad Aex = 360$$
$$Si = (12-2) \cdot 180 \quad n = 360$$
$$Si = 10 \cdot 180 = 1800, \quad 12 = 30,$$

$$2. S = (n-2) \cdot 180$$
$$S = (20-2) \cdot 180$$
$$S = 18 \cdot 180 = 3240,$$

3. Soma dos ângulos interiores é dada pela expressão :

$$S = \frac{180(n-2)}{n}$$

$$4. 180 \cdot (n-2) = 5 \cdot 360$$

$$180n - 360 = 1800$$

$$180n = 1800 + 360$$

$$180n = 2160$$

$$n = \frac{2160}{180} = 12,$$

$$180$$

$$5. \frac{4(4-3)}{2} = \frac{4}{2} = 2 \text{ diag.} \quad 2 \times 2 = 4,$$

$$6. \frac{180(n-2)}{n} = \frac{3(360)}{n} = \frac{180(n-2)}{n} = 1080$$

$$180(n-2) = 1080$$

$$n = 6 + 2 = 8,$$

$$n-2 = \frac{1080}{180} = 6,$$