

Tarefa Básica - Geometria plana

01) $r \parallel s$

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

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

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

R: (C) //

02) $r \parallel s$

$$120^\circ - 90^\circ = 30^\circ \quad R: (B) //$$

$$2a + a + a + x = 360^\circ$$

$$4a + x = 360^\circ$$

$$4 \cdot 60 + x = 360^\circ$$

$$240^\circ + x = 360^\circ$$

$$x = 360^\circ - 240^\circ$$

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

R: (D) //

03) $360^\circ = 2a + 2a + a + a$

$$360^\circ = 6a$$

$$a = \frac{360}{6} = 60^\circ$$

05) suplementar $x + y = 180^\circ$
 $x + \left(\frac{5}{4}\right)x = 180^\circ$

$$\frac{9}{4}x = 180^\circ$$

$$y = \left(\frac{5}{4}\right) \cdot 80$$

$$x = \frac{180 \cdot 4}{9}$$

$$y = \frac{400}{4}$$

$$x = \frac{720}{9}$$

$$\boxed{y = 100^\circ}$$

$$x = 80^\circ$$

R(A) //

06) $x = \frac{90 - x}{2}$

$$2x = 90 - x$$

$$2x + x = 90$$

$$3x = 90$$

$$x = \frac{90}{3}$$

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

R(A) //

$$07) \quad 3(90-x) = \frac{180-x}{3}$$

$$270 - 3x = \frac{180-x}{3}$$

$$3(270 - 3x) = 180 - x$$

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

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

$$-8x = 180 - 810$$

$$-8x = -630 \quad (| : (-))$$

$$8x = 630$$

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

$$x = 78,75$$