Tarefa Básica - Triângulos

1. $x = 60° + 50° = 110$

alternativa C

2. $3x + 4x + 5x = 180°$

$12x = 180°$

$x = \frac{180°}{12} = 15°$

alternativa e

3. $\begin{cases} 40 + y + z = 180 \\ x + \frac{y}{y} + \frac{z}{2} = 180 \cdot (-2) \end{cases}$

$\begin{cases} 40 + y + z = 180 \\ -2x - y - z = 360 \end{cases}$

$40 - 2x = 180 - 360$

$-2x = -180 - 40$

$-2x = -220$

$x = \frac{-220}{-2} = 110°$

alternativa d

4. $ABD: x < 3 + 2 \rightarrow x < 5$

$BCD: x < 5 + 2 \rightarrow x < 7$

$(4 < 5$ e $4 < 7)$

alternativa e

5. $30 < x + y$

$16 < y + z$

$18 < x + z$

$30 + 16 + 18 < x + x + y + y + z + z$

$64 < 2x + 2y + 2z \quad (:2)$

$32 < x + y + z$

$\therefore 33$

alternativa e

6. $x + x + 130 = 180$

$2x = 180 - 130$

$x = \frac{50}{2} = 25° \rightarrow \hat{A}$

$\hat{C} = 90 + 25° = 115°$

$25° + 115 + y = 180°$

$y = 180 - 140 = 40° \rightarrow \hat{B}$

R: 25°, 40° e 115°

7. $20° + a + 105° = 180°$

$a = 180 - 125 = 55°$

$\hat{Z} = a + 75°$

$\hat{Z} = 55 + 75 = 130°$

$75° + 75° + \hat{x} = 180°$

$\hat{x} = 180° - 150 = 30°$

8. $20° 10' = x + x$

$20° 10' = 2x$

$x = (20° 10') : 2$

$x = 10° 5'$ alternativa b

9. $x + 90° + 35° = 180$

$x = 180 - 125$

$x = 55°$

$55° + 90° + y = 180$

$y = 180 - 145°$

$y = 35°$