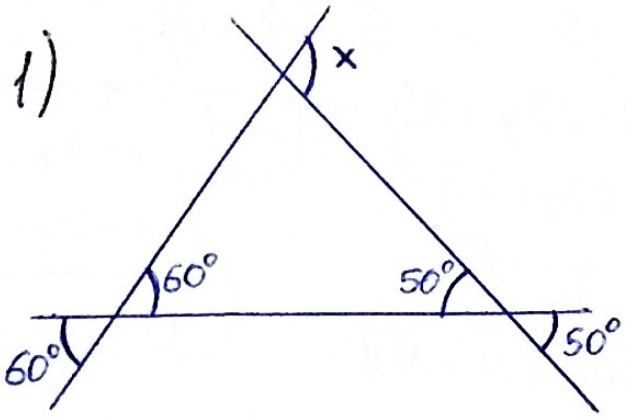
1)



$50° + 60° = x$

$x = 110°$ //

(C)

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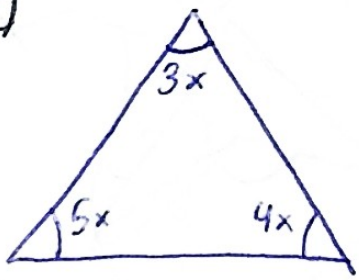
2)



$3x + 4x + 5x = 180°$

$12x = 180°$

$x = \frac{180°}{12} \Rightarrow x = 15°$ ///

(E)

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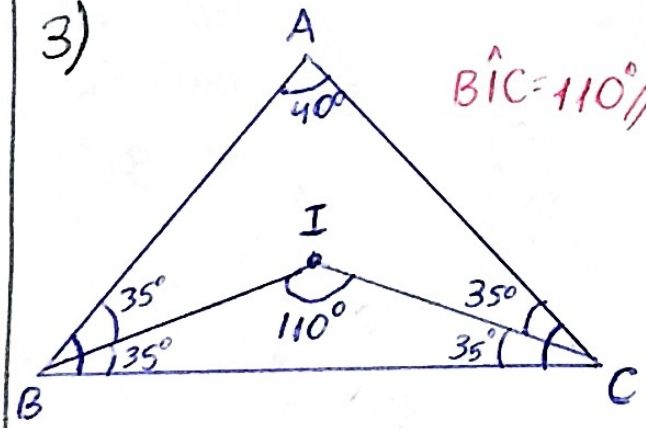
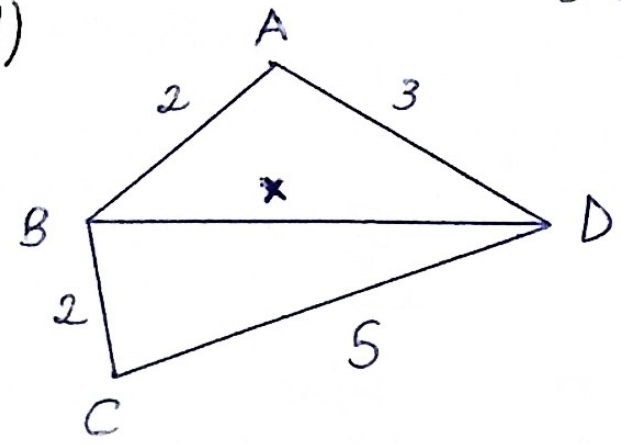
3)



$B\hat{I}C = 110°$ //

(D)

4)



C.E.

$$\begin{cases} x < 2+3 \\ x < 2+5 \end{cases} \rightarrow \begin{matrix} x < 5 \\ x < 7 \end{matrix}$$

Para $\overline{BD}$ ser um lado de triângulo, x precisa ser menor que 5. //

(E)

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5) $\begin{cases} x + y > 30 \\ x + z > 18 \\ y + z > 16 \end{cases}$ (E)

$2x + 2y + 2z > 64$ (÷2)

$x + y + z > 32$ //

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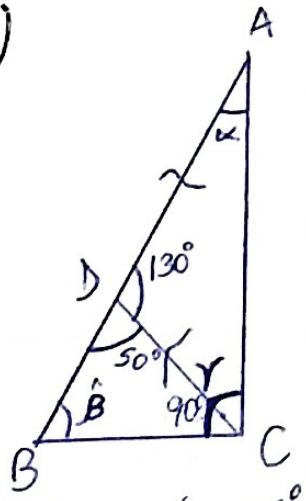
6)



$\hat{C} = 90° + 25°$

$\hat{C} = 115°$

$\alpha + r = 50°$

$\hat{B} = 180° - 50° - 90°$

$\hat{B} = 40°$ //

$\alpha \cong r$

$130° + \alpha + \alpha \cong 180°$

$2\alpha \cong 50°$

$\alpha \cong 25°$

$x + 40° + r + 90° = 180°$

$x = 50° - r$

$50° - r + r =$

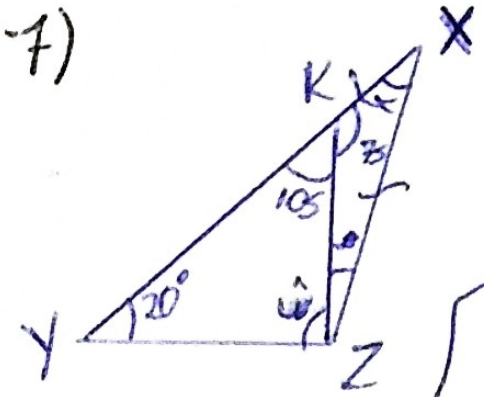
$\hat{A} = 25°$

$\hat{B} = 40°$

$\hat{C} = 115°$

$\hat{C} = 115°$

7)



$\hat{w} = 180° - 105° - 20°$

$\hat{w} = 55°$ $\quad \hat{\alpha} = \hat{X} = 30°$ //

$Z = 55° + 75°$ $\quad Z = 130°$ //

$Z = 830$

$\hat{Z} = \hat{w} + \hat{B}$

$\hat{\alpha} + \hat{B} = 105° \rightarrow \hat{\alpha} = 105° - 75°$

$\hat{\alpha} = 30°$

Se $XZ \cong XK$

então, $\hat{B} \cong 75°$

8)

$x + x = 20°10'$

$2x = 20°10'$

$x = 10°05'$ //

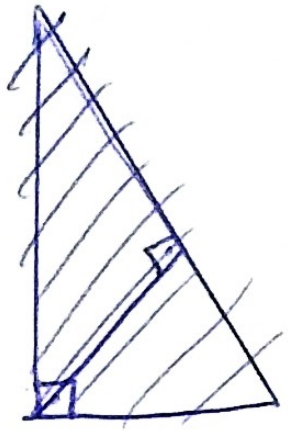
(B)

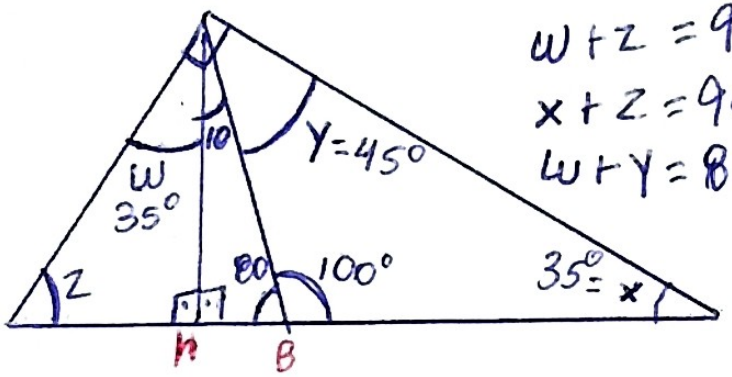
9)

Se $x \cong \ldots$

então, $\hat{B} = 75°$

9)





$x + y = 80°$

$w + z = 90°$

$x + z = 90°$

$w + y = 80°$

$w + 10° = 45°$

$w = 35°$

$35° + z = 90°$

$z = 55°$

Resp. Comp. $x = 35°$ //

$z = 55°$ //