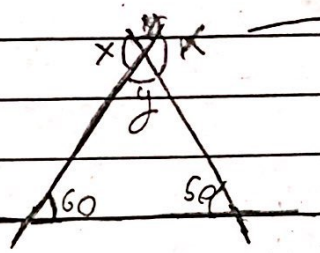
Tarefa dos triangulos

1)



$60 + y + 50 = 180$

$110 + y = 180$

$y = \frac{180}{110} \rightarrow 70°$

$70 + x + 70 + x = 360°$

$2x + 140 = 360°$

$2x = 360 - 140$

$2x = 220$

$x = \frac{220}{2} \rightarrow 110°$ //

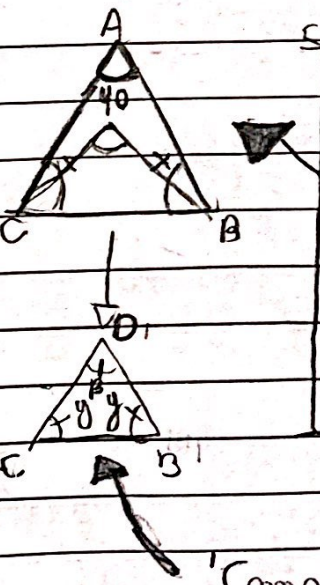
R: Letra C

2) $3x + 5x + 4x = 180°$ R: Letra E

$12x = 180$

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

3)



Lembrando que $B = C$. * Bissetriz

$40° + 2x = 180°$

$2x = 180° - 40°$

$x = \frac{140°}{2} \rightarrow 70°$ //

Como é um triângulo menor, os ângulos y, são menores que os ângulos x, do triângulo ABC Δ. Então...

$y = 70/2 \rightarrow 35°$

Resposta: Letra D

Δ DBC

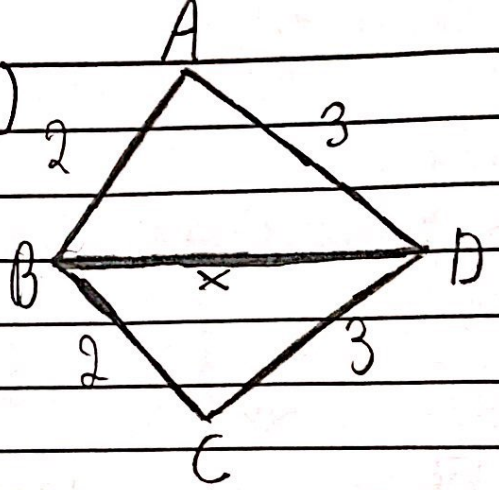
$\beta + 2y = 180°$

$\beta + 2 \cdot 35 = 180°$

$\beta = 180 - 70$

$\beta = 110°$ //

4)



BAD → $(2-3) < x < 2+3$

$1 < x < 5$ //

BCD → $(2-3) < x < 2+5$

$3 < x < 7$

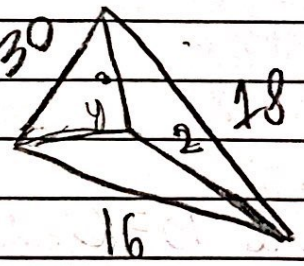
se $3 < x < 5$ e $3 < x < 7$

então

$x = 4$ //

Resposta: Letra E)

5)



I. $30 < y + x$

II. $18 < x + z$

III. $16 < y + z$

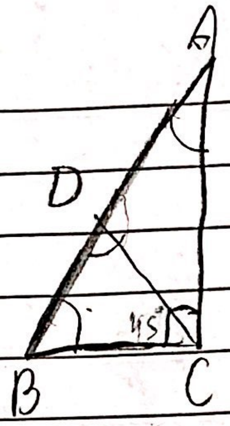
IV. $\frac{64 < 2y + 2x + 2z}{2}$

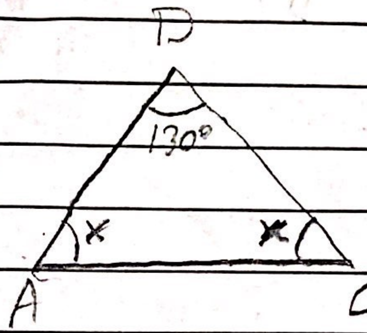
$32 < y + x + z$

$x > 32 \rightarrow 33$

R: Letra E)

06.





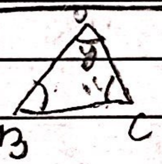
AD, CD = congruentes
CD, BC = perpendiculares

ADC = 130°

$130° + 2x = 180°$
$2x = 180° - 130°$
$2x = 50°$
$x = \frac{50}{2} \rightarrow 25°$

$\hat{A} = 25°$
$\hat{D} = 130°$
$\hat{B} = 40°$

B = ?



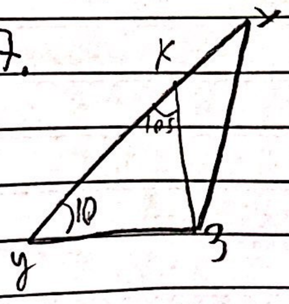
$A + B + C = 180°$
$25 + C + 40 = 180°$
$C = 180 - 65$

$C = 113°$

$\hat{A} = 25°$
$\hat{B} = 40°$
$\hat{C} = 113°$

$\hat{B} + y + 90 = 180°$
$\hat{B} + 50 + 90 = 180$
$\hat{B} = 180 - 140°$
$\hat{B} = 40°$

07.

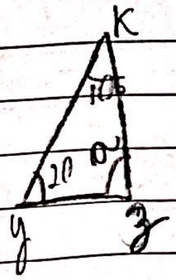


$\hat{y} = 20$

$y \hat{x} z = 105.$

xz1 xk = congruentes

— 1 —



$20 + 105 + a = 180°$
$125 + a = 180$
$a = 180° - 125°$
$a = 55°$

$\beta + \beta + \alpha = 180$
$150 + \alpha = 180$
$\alpha = 180 - 150$
$\alpha = 30° = x$

$105° + \beta = 180$

$\beta = 180 - 105$

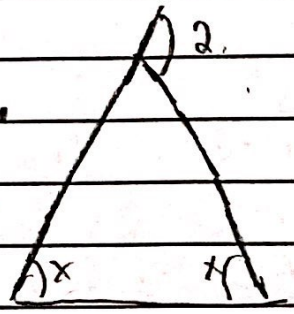
$\beta = 75$

$z = \alpha + \alpha$

$z = 55 + 75$

$z = 130°$ // $= z$

08.

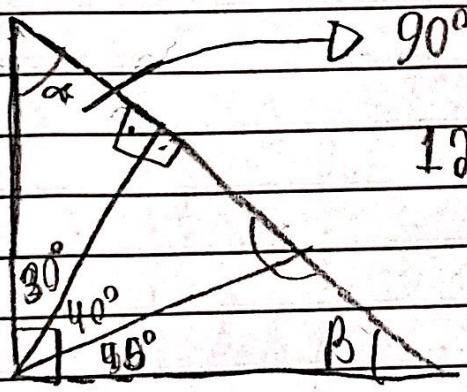


$20°10' = x + x$ R: $x = 10°5'$ //

$2x = 20°10'$

$x = \frac{20°10'}{2}$

09.

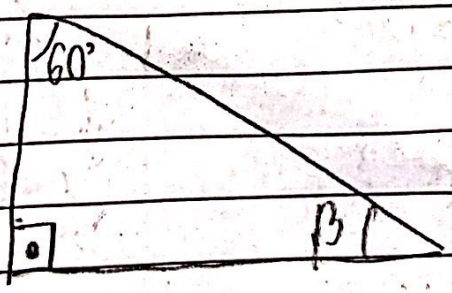


$90° + 30° + \alpha = 180°$

$120 + \alpha = 180°$

$\alpha = 180 - 120°$

$\alpha = 60°$



$B + 60 + 90 = 180°$

$B = 180° - 150$

$B = 30°$ //

Resposta: 30° graus