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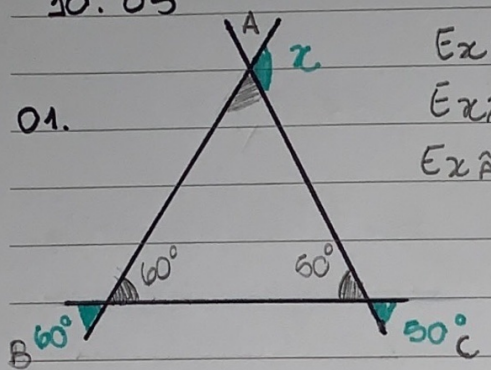
EXERCÍCIOS GEOMETRIA

10.05

01.



$Ex\hat{A} = x$

$Ex\hat{A} = 60° + 50°$

$Ex\hat{A} = 110°$ //

alternativa c//

02. $3x + 4x + 5x = 180°$

$12x = 180°$

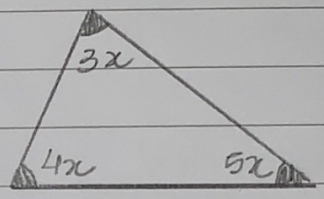
$x = \frac{180}{12} = 15°$ //

180 | 12

12 15

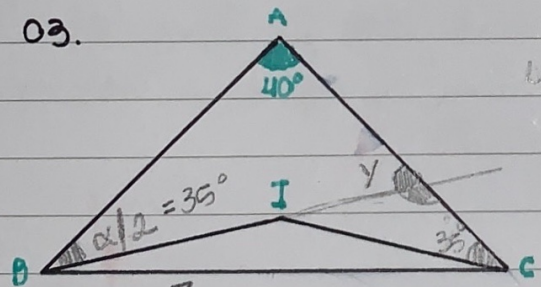
060

0//



alternativa c//

03.



$\alpha = 70°$ $\frac{\alpha}{2} = 35°$

$40 + x + x = 180°$

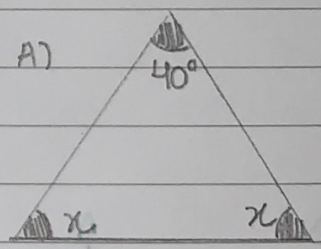
$2x + 40 = 180°$

$2x = 180° - 40°$

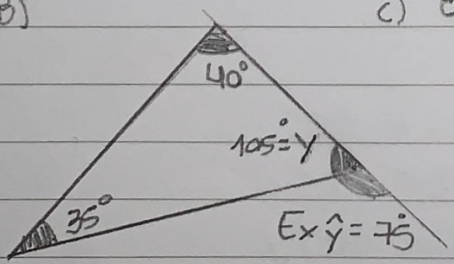
$2x = 140°$

$x = \frac{140}{2} = 70°$

A)



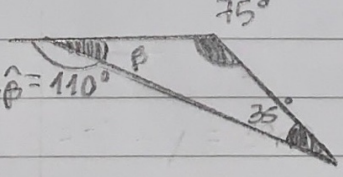
B)



$40° + 35° + y = 180°$

$y = 180° - 75° = 105°$

c) $Ex\hat{\beta} = 110°$



$75° + 35° + \beta = 180°$

$\beta = 180° - 110°$

$\beta = 70°$ //

$Ex\hat{\beta} = \hat{I} = 110°$ //

alternativa d//

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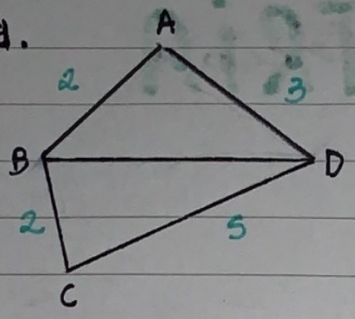
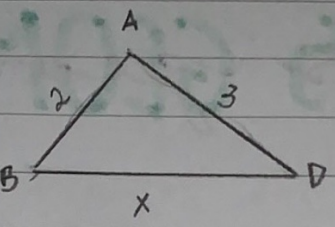
04.

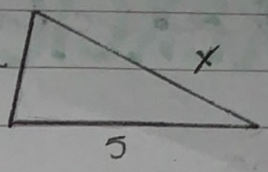


a)



$x < 2 + 3$

b)



$5 < 2 + x$

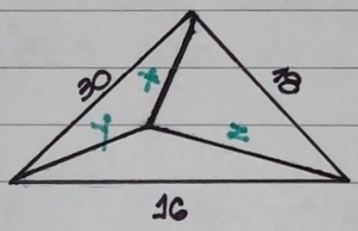
usando a condição de existência dos triângulos e analisando as alternativas, a única que se encaixaria no exemplo a), seria a alternativa e//

$4 < + 2 + 3 \rightarrow 5 < 2 + 4$

05.

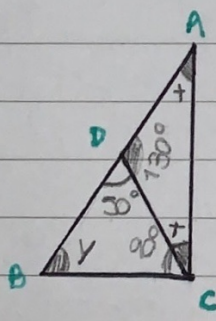
$$\begin{array}{r} 30 < x + y \\ + \quad 18 < x + z \\ 16 < y + z \end{array} \quad \rightarrow \quad \frac{64 < 2x + 2y + 2z}{2}$$

$$32 < x + y + z$$



usando a condição de existência dos triângulos e analisando as alternativas, a única que é maior que 32 seria a alternativa e// = 33

06.



$130 + x + x = 180°$

$2x = 180° - 130°$

$2x = 50$

$x = 25°$//

$Ex\hat{2} = 25 + 25$

$Ex\hat{2} = 50°$

$y + 50 + 90 = 180°$

$y = 180° - 140°$

$y = 40°$//

$C = 90° + x$

$C = 90° + 25°$

$C = 115°$

$A = 25°$

$B = 40°$

$C = 115°$//

07.

$105° + 20° + x = 180°$

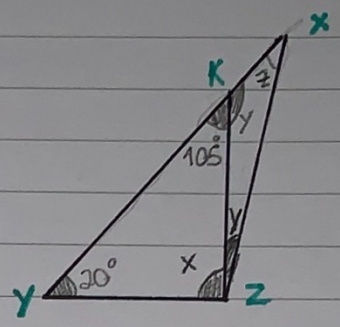
$x = 180° - 125°$

$x = 55°$ //

$105° + y = 180°$

$y = 180° - 105°$

$y = 75°$ //



$75° + 75° + z = 180°$

$z = 180° - 150°$

$z = 30°$ //

$z = \hat{x}$

$\hat{z} = 75° + 55°$

$\hat{z} = 130°$

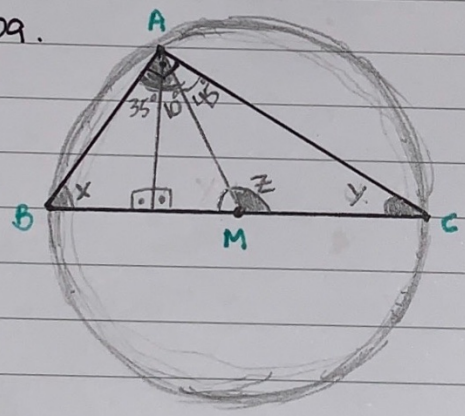
$\hat{z} = 130°$ //

$\hat{x} = 30°$ //

08. alternativa b → $Ex\alpha = 10° 5' + 10° '5$

$Ex\alpha = 20° 10'$ //

09.



$35° + 90° + x = 180°$

$x = 180° - 125°$

$x = 55°$ //

$z = 10° + 90°$

$z = 100°$

$45° + 100° + y = 180°$

$y = 180° - 145°$

$y = 35°$ //