S T Q Q S S D

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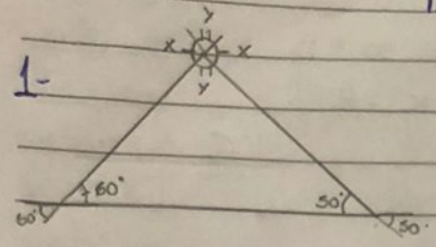
Tarefa Básica

1-



$60° + 50° + Y = 180°$

$110 + Y = 180°$

$Y = 180 - 110$

$Y = 70°$

$70° + 70° + 2x = 360°$

$140 + 2x = 360°$

$2x = 360° - 140°$

$2x = 220$

$x = \frac{220}{2} = 110$

C

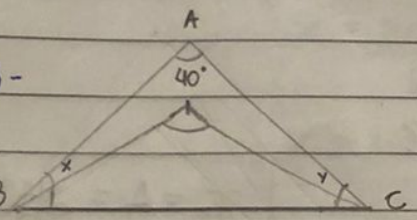
2- $3x + 4x + 5x = 180°$

$12x = 180°$

$x = \frac{180°}{12} = 15°$

E

3-



B = C, por conta das diretrizes, então

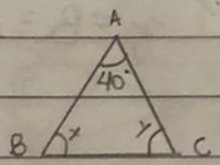
$40° + x + x = 180°$

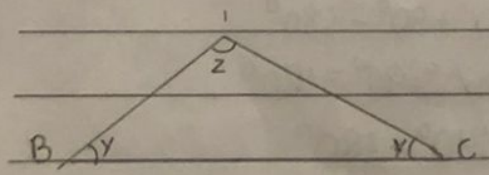
$40 + 2x = 180°$

$2x = 180° - 40°$

$2x = 140°$

$x = \frac{140°}{2} = 70°$





$z + y + y = 180°$

$z + 2y = 180°$

$z + 2.35° = 180°$

$z + 70° = 180°$

$z = 180° - 70°$

$z = 110°$

D

BI e CI são metade de B e C, então

$Y = \frac{70°}{2} = 35°$

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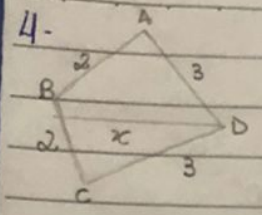
S T Q Q S S D

4-



$BAD = |2-3| < x < 2+3$

$1 < x < 5$

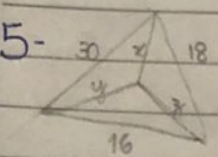
$BCD = |2-5| < x < 2+5$

$3 < x < 7$

$\begin{cases} 3 < x < 5 \\ x = 4 \end{cases}$

E

5-



$30 < y + x$

$+ \ 18 < x + z$

$16 < y + z$

$64 < 2y + 2x + 2z < 72$

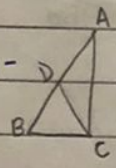
$32 < y + x + z$

$x + y + z = ?$

E

• A soma obrigatoriamente tem que ser maior que 32, então a resposta é 33.

6-



• quais são os ângulos de A, B e C?

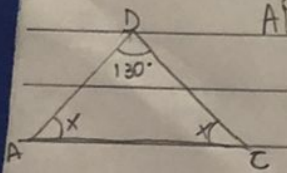
AD e CD são congruentes

CD e BC são perpendiculares

$A\hat{D}C = 130°$

$x = A = 25°$

$z = B = 40°$



$130° + x + x = 180°$

$130° + 2x + 180°$

$2x = 180° - 130°$

$2x = 50°$

$x = \frac{50}{2} = 25°$

$\hat{D} + Y = 180°$

$130° + Y = 180°$

$Y = 180° - 130°$

$Y = 50°$

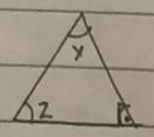
$A + B + C = 180°$

$25° + 40° + C = 180°$

$65° + C = 180°$

$C = 180° - 65°$

$C = 115°$



$Z + Y + 90° = 180°$

$Z + 50° + 90° = 180°$

$Z + 140° = 180°$

$Z = 180° - 140°$

$Z = 40°$

$A = 25°$

$B = 40°$

$C = 115°$

spiral

S T Q Q S S D

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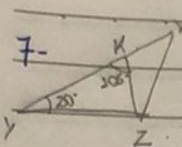
7-



ângulo de x e z

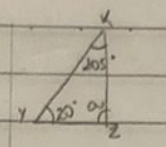
$\hat{Y} = 20°$

$Y\hat{K}Z = 105°$

XZ e XK são congruentes

$x = 30°$

$Z = 130°$



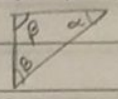
$20° + 105° + a = 180°$

$125° + a = 180°$

$a = 180° - 125°$

$a = 55°$

$x = a$



$\beta + \beta + \alpha = 180°$

$150° + \alpha = 180°$

$\alpha = 180° - 150°$

$\alpha = 30°$

$105° + \beta = 180°$

$\beta = 180° - 105°$

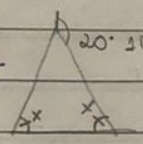
$\beta = 75°$

$z = a + \alpha$

$z = 55 + 75$

$z = 130°$

8-



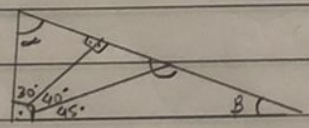
$20°\,10' = x + x$

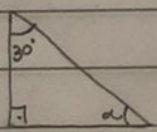
$20°\,10' = 2x$

$x = \frac{20°\,10'}{2}$

$x = 10°\,5'$

9-



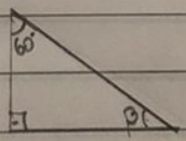


$90° + 30° + \alpha = 180°$

$120° + \alpha = 180°$

$\alpha = 180 - 120°$

$\alpha = 60°$



$\beta + 60° + 90° = 180°$

$\beta + 150° = 180°$

$\beta = 180° - 150°$

$\beta = 30°$