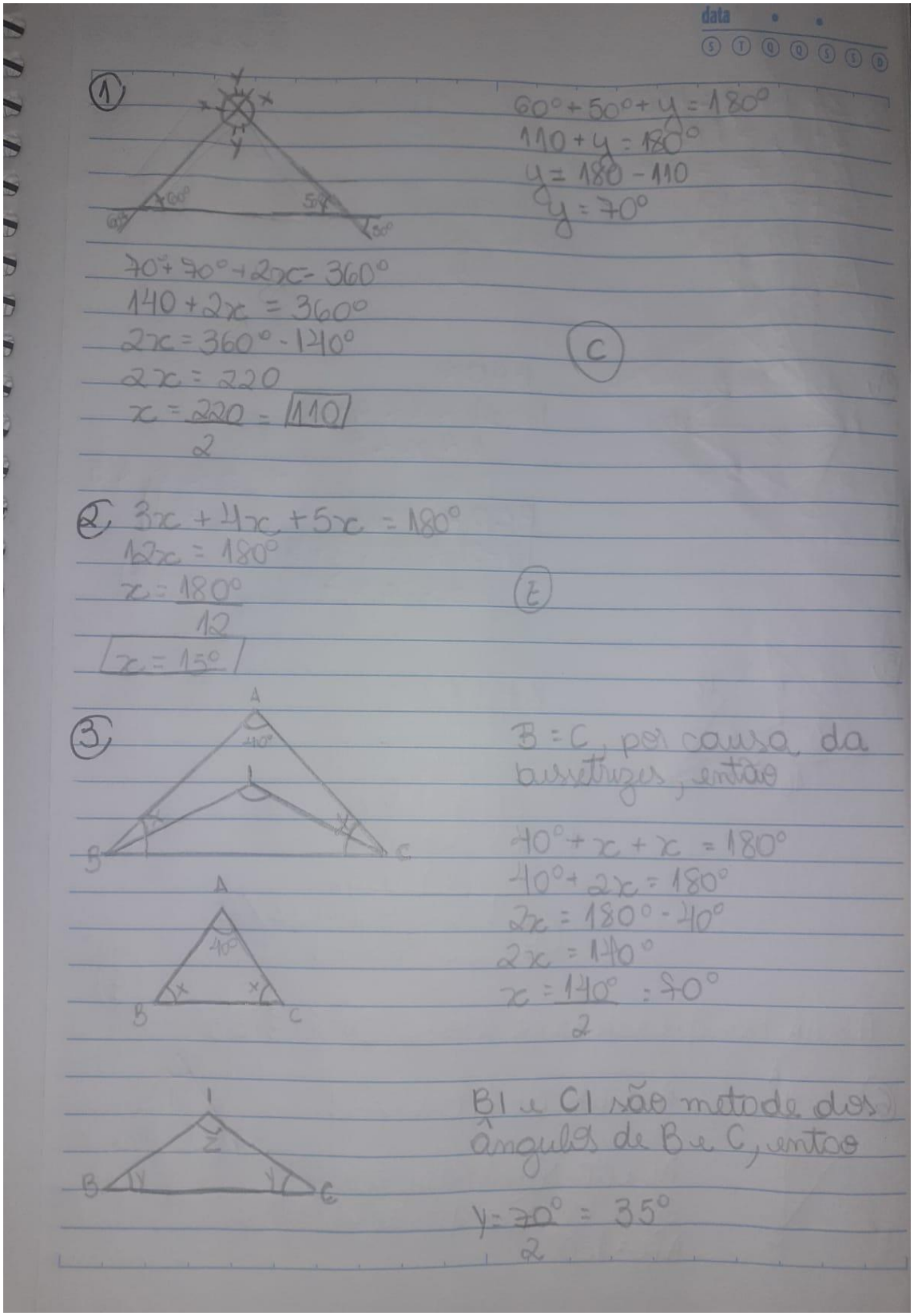
Evelyn Santos de Santana

CTII348

Triângulos



$z + y + y = 180°$

$z + 2y = 180°$

$z + 2 \cdot 35° = 180°$

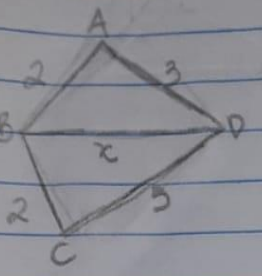
$z + 70° = 180°$

$z = 180° - 70°$

$\boxed{z = 110°}$

(D)

(4)



BAD:

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

$1 < x < 5$

BCD:

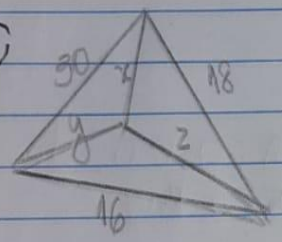
$|2-3| < x < 2+5$

$3 < x < 7$

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

(E)

(5)



$x + y + z = ?$

$30 < y + x$

$+ \ 18 < x + z$

$16 < y + z$

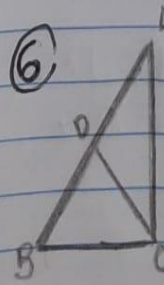
$64 < 2y + 2x + 2z \ /2$

$32 < y + x + z$

(E)

A SOMA tem que SER MAIOR QUE 32, ENTÃO É 33

(6)

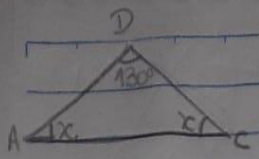


Angulos de A, B e C = ?

AD e CD não Congruentes

CD e BC são perpendiculares

$A\hat{B}C = 130°$



$130° + x + x = 180°$
$130° + 2x = 180°$
$2x = 180° - 130°$
$2x = 50°$
$x = 50/2 = \boxed{25°}$

$D + y = 180°$
$130° + y = 180°$
$y = 180° - 130°$
$y = 50$

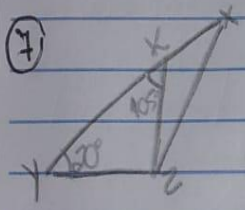
$z + y + 90° = 180°$
$z + 58° + 90° = 180°$
$z + 140° = 180°$
$z = 180° - 140°$
$\boxed{z = 40°}$

$x = A = 25°$
$z = B = 40°$

$A + B + C = 180°$
$25° + 40 + C = 180°$
$65° + C = 180°$
$C = 180° - 65°$
$\boxed{C = 113°}$

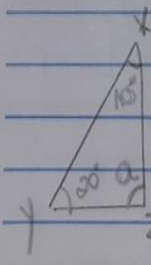
$A = 25°$
$B = 40°$
$C = 115°$

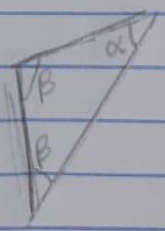
(7)



Angulos de x e z

$y = 20°$
$y \hat{x} z = 105°$
xz e xk são congruentes





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

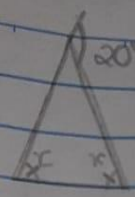
$105° + \beta = 180°$
$\beta = 180° - 105°$
$\beta = 75°$

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

$z = a + \alpha$
$z = 55 + 75$
$z = 130°$

$x = 30°$
$z = 130°$

⑧



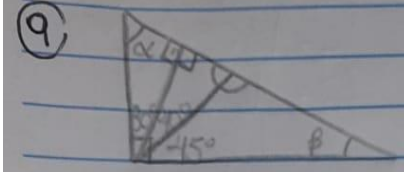
$20°10' = x + x$

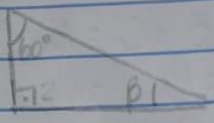
$20°10' = 2x$

$x = \frac{20°10'}{2}$

$\boxed{x = 10°5'}$

⑨





$90° + 30° + \alpha = 180°$

$120° + \alpha = 180°$

$\alpha = 180 - 120°$

$\boxed{\alpha = 60°}$

$\beta + 60° + 90° = 180°$

$\beta + 150° = 180°$

$\beta = 180° - 150°$

$\boxed{\beta = 30°}$