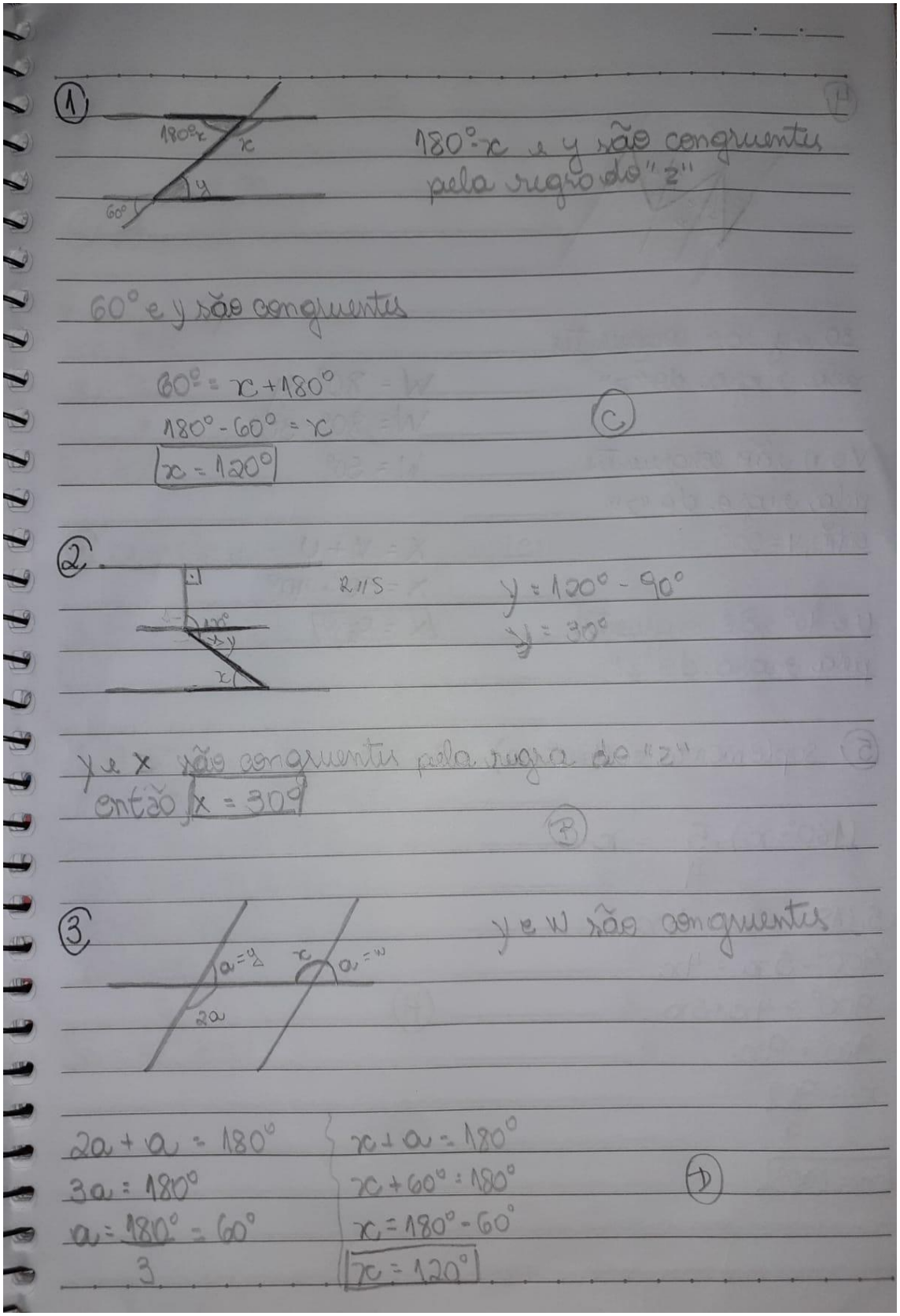
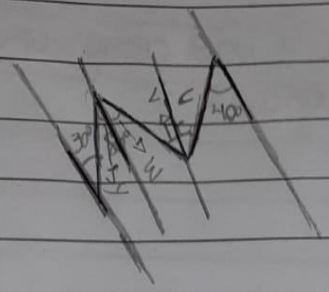
Evelyn Santos de Santana

CTII348

Geometria Plana – Conceitos Iniciais



④



30° e y são congruentes pela regra do "Z"

V e W são congruentes pela regra do "Z" então, V = 50°

U e 40° são congruentes pela regra do "Z"

$W = 80° - y$

$W = 80° - 30°$

$W = 50°$

$X = V + U$

$X = 50° + 40°$

$\boxed{X = 90°}$

⑤ Suplemento é $(180° - x)$

$$\frac{(180° - x) \cdot 5}{4} = x$$

$5 \cdot (180° - x) = 4x$

$900° - 5x = 4x$

$900° = 4x + 5x$

$900° = 9x$

$x = \frac{900}{9}$

$\boxed{x = 100°}$

⑧

⑥ complemento = 90 - x

$$\frac{90 - x}{2} = x$$

$2x = 90° - x$

$3x = 90°$

$x = \frac{90°}{3}$

$\boxed{x = 30°}$

(A)

⑦ complemento = 90° - x, suplemento = 180° - x

$$3 \cdot (90° - x) = \frac{1}{3} \cdot (180° - x)$$

$1 \cdot (180° - x) = 3 \cdot 3 (90° - x)$

$180° - x = 9 \cdot (90° - x)$

$180° - x = 810° - 9x$

$810° - 180° = 9x - x$

$630° = 8x$

$x = \frac{630}{8}$

$\boxed{x = 78°45'}$

630 | 8
56 78°
70
64
6° · 60' = 360' | 8
32 45'
40
0

(E)