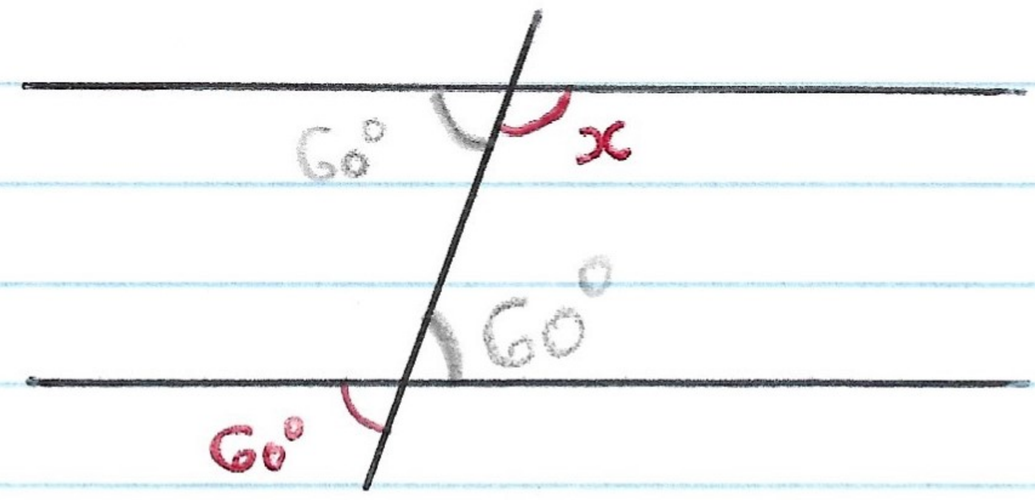
D S T Q Q S S

1

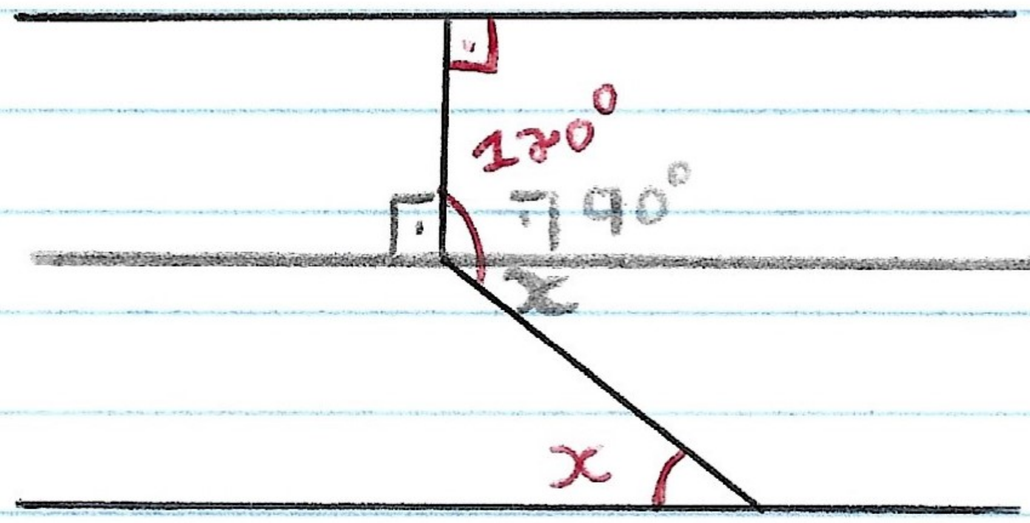


$60° + x = 180°$

$x = 180° - 60°$

$x = 120°$ (C)

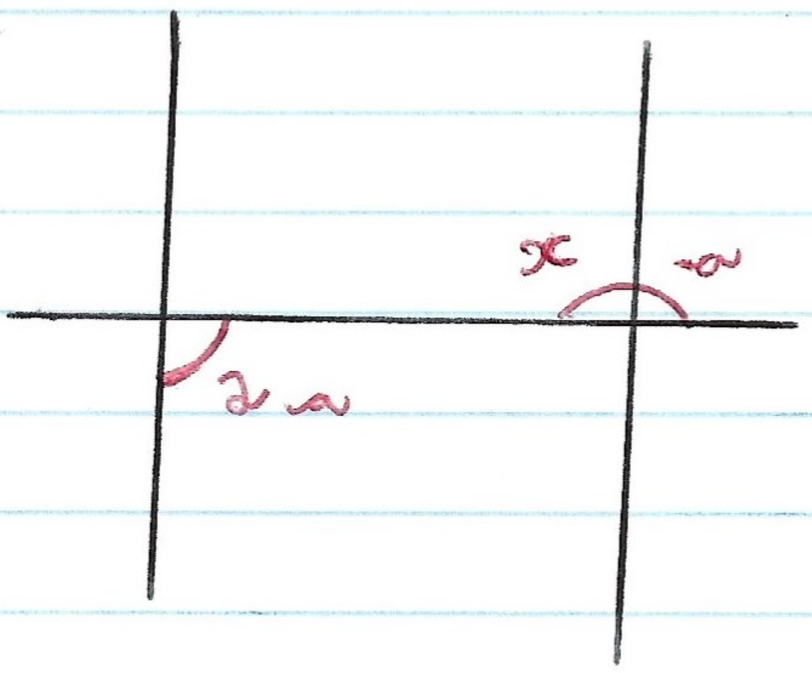
2



$x = 120° - 90°$

$x = 30°$ (B)

3



$x + a = 180°$ e $2a = x$

$\therefore 2a + a = 180°$

$3a = 180°$

$a = \frac{180°}{3} = 60°$

Sendo $a = 60°$, temos:

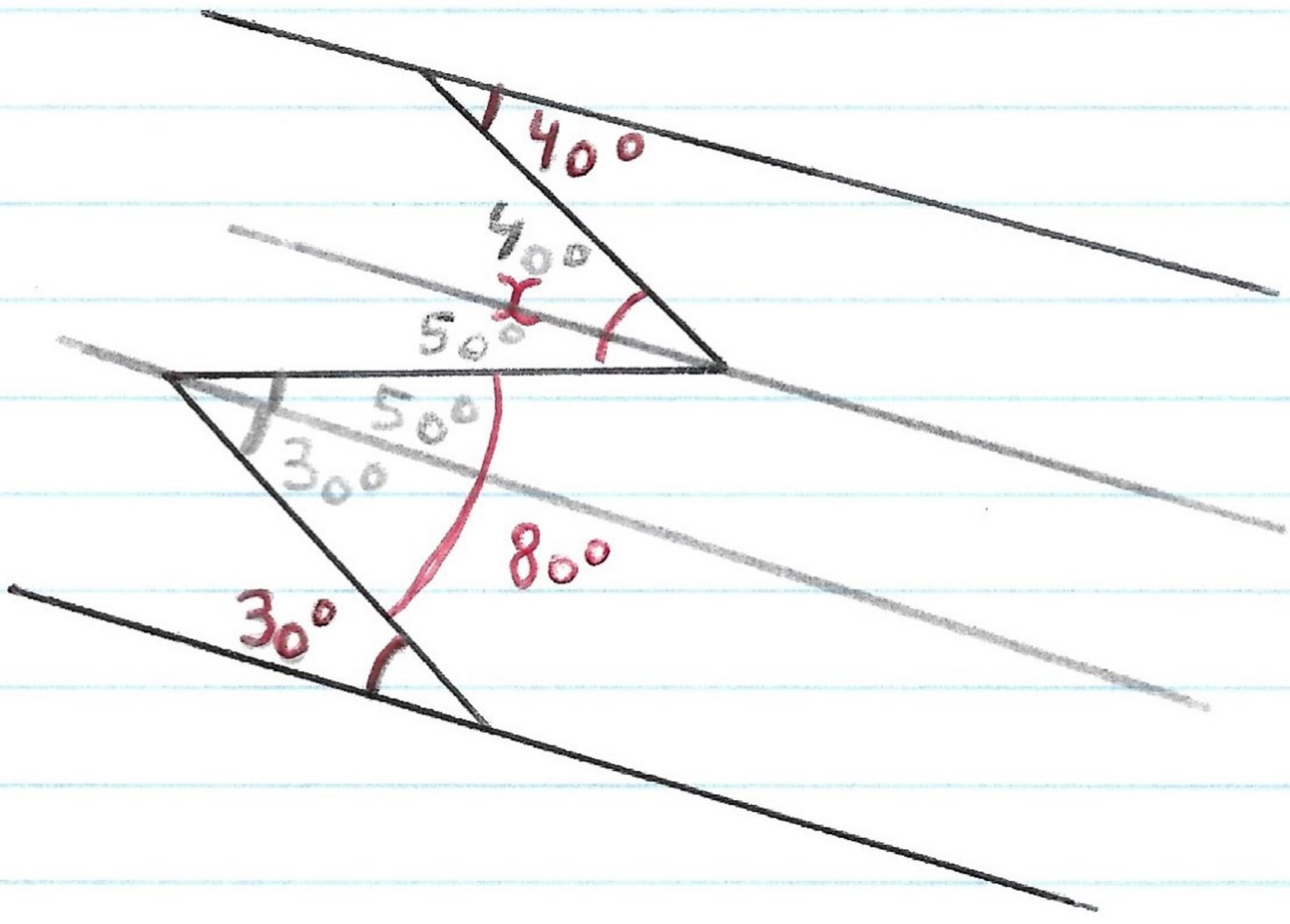
$x + 60° = 180°$

$x = 180° - 60°$

$x = 120°$

$x = 120°$ (D)

④



Ao traçar mais duas paralelas e encontrar ângulos congruentes, temos: $x = 50° + 40° = 90°$

R: $x = 90°$

⑤ $x = \frac{5}{4} \cdot (180° - x)$

$4x = 5 \cdot (180° - x)$

$4x = 900° - 5x$

$5x + 4x = 900°$

$9x = 900°$

$x = \frac{900}{9} = 100$

(A) $x = 100°$

D S T Q Q S S

⑥ $x = \frac{(90^\circ - x)}{2}$

$2x = 90^\circ - x$

$2x + x = 90^\circ$

$3x = 90^\circ$

$x = \frac{90^\circ}{3} = 30^\circ$

(A) $x = 30^\circ$

⑦ $3 \cdot (90^\circ - x) = \frac{1}{3} \cdot (180^\circ - x)$

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

$9 \cdot (90^\circ - x) = 180^\circ - x$

$810^\circ - 9x = 180 - x$

$810^\circ = 180^\circ - x + 9x$

$810^\circ = 180^\circ + 8x$

$8x = 810^\circ - 180^\circ$

$8x = 630^\circ$

$x = \frac{630^\circ}{8} = 78,75 = 78^\circ 45'$

(E) $x = 78^\circ 45'$