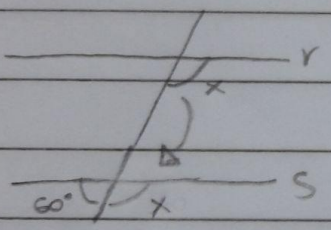
Aluno: **Leonardo Yukio Aoki** Turma: **CTII 348**
Prontuário: **CB1990233** *IFSP - Câmpus Cubatão*

Tarefa Básica 18

Geometria Plana

1.



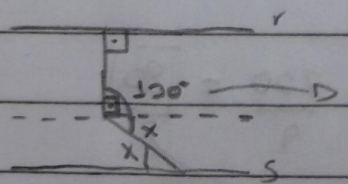
$60° + x = 180°$

$x = 180° - 60°$

$\boxed{x = 120°}$

C

2.

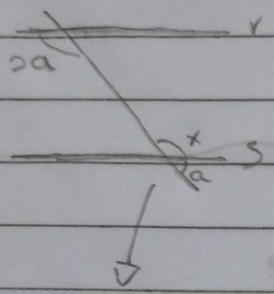


$120 - 90 = x$

$\boxed{x = 30°}$

B

3.



2a e x são congruentes, logo...

$2a + a = 180°$

$3a = 180°$

$a = 180°/3$

$\boxed{a = 60°}$

$x + a = 180°$

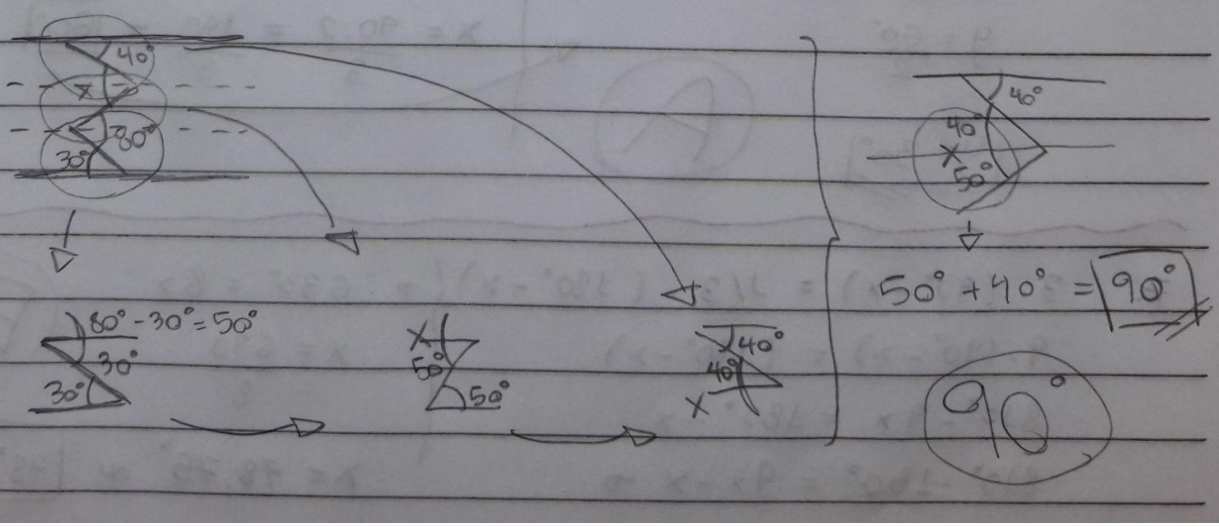
$x + 60° = 180°$

$x = 180° - 60°$

$\boxed{x = 120°}$

D

4.



5. Ângulos suplementares:

Soma = 180°

$x + y = 180°$

$y = \frac{5}{4}x$

$x + \frac{5}{4}x = 180°$

$\frac{9}{4}x = 180°$

$x = \frac{180}{\frac{9}{4}}$

$x = \frac{180 \cdot 4}{9} = \frac{720}{9} = \boxed{80}$

$x = 80° \rightarrow y = \frac{5}{4}x$

$y = \frac{5}{4} \cdot 80$

$y = \frac{400}{4} = 100°$

$\boxed{y = 100°}$

A

6. Ângulos complementares:

Soma = 90°

$x + y = 90°$

$y = \frac{1}{2}x$

$x + \frac{1}{2}x = 90°$

$\frac{3}{2}x = 90°$

$x = \frac{90}{\frac{3}{2}}$

$x = \frac{90 \cdot 2}{3} = \frac{180}{3} = \boxed{60°}$

$x = 60°$ $y = \frac{1}{2} \cdot 60°$

$y = \frac{60°}{2}$

$\boxed{y = 30°}$

A

7. $3 \cdot (90° - x) = 1/3 \cdot (180° - x)$

$9 \cdot (90° - x) = (180° - x)$

$810° - 9x = 180° - x$

$810° - 180° = 9x - x \rightarrow$

$630° = 8x$

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

$x = 78{,}75°$ ou $\boxed{78°45'}$

E