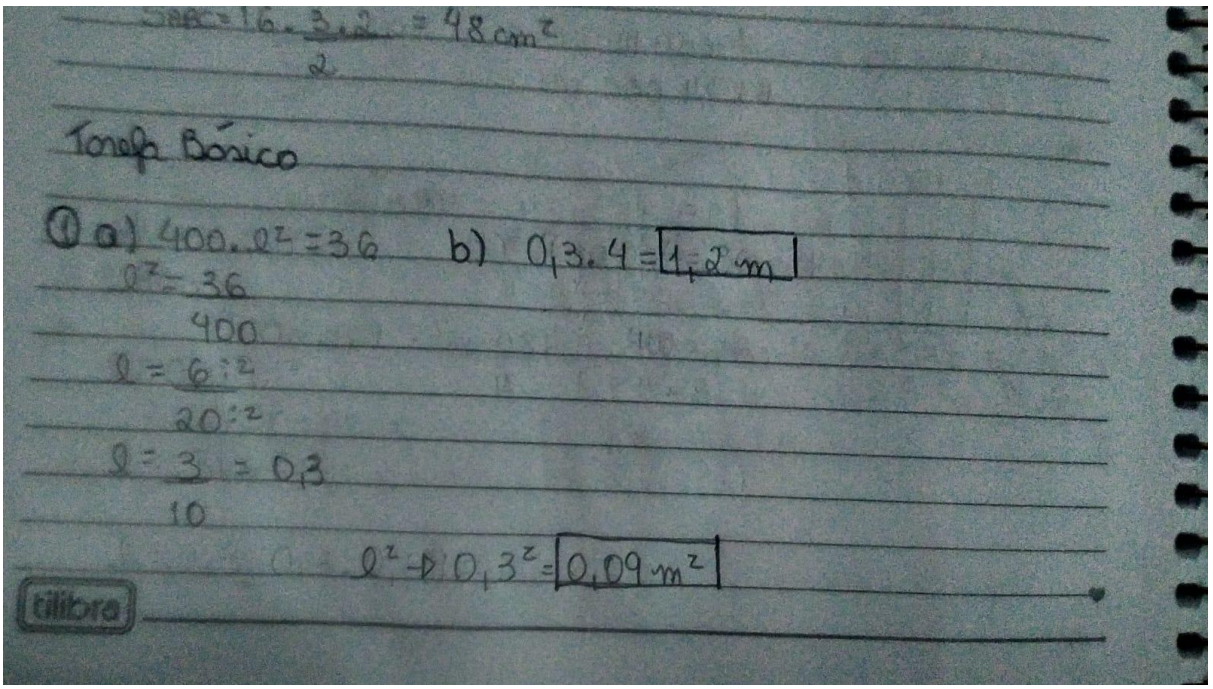
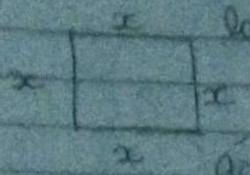
Nome: Gabriely Cristina Silva Santos CTII: 317

LISTA MATEMÁTICA



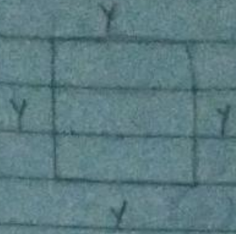
(2)



lado = x

área ⊳ x^2

A1



lado = Y

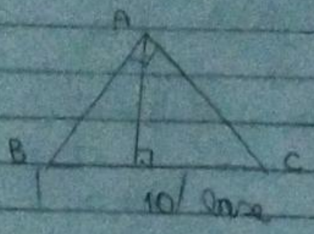
área ⊳ l^2

A2

$A_2 = 2A_1 \triangleright Y^2 = 2x^2$

$Y = x\sqrt{2}$ (D)

(3)



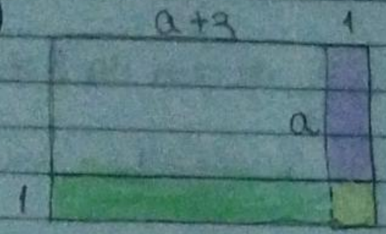
$\frac{10 \cdot h}{2} = 15$

(D) $10h = 30$

$h = \frac{30}{10}$

| $h = 3$ |

(4)



Verde = $1(a+3)$

Amarela = 1.1

Roxo = $1.a$

$a+3+1+a = 16$

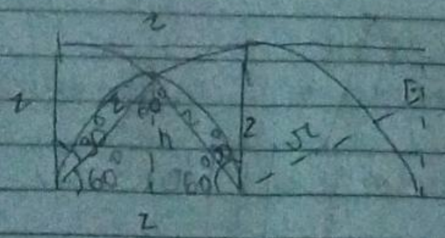
$2a+4 = 16$

$a = 6$

$(a+4).(a+1) = 10.7 =$

$70\ m^2$

(5)



$S = \frac{2.\sqrt{3}}{2} \triangleright S = \sqrt{3}$

$2^2 = 1^2 + h^2$

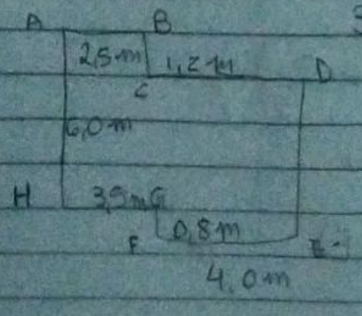
$4 = 1 + h^2$

$h^2 = 3$

| $h = \sqrt{3}$ | (B)

(6)

3 retângulos



1)

$A = 2,5.6 =$

$A = 15\ m^2$

2)

$6 - 1,2 = 4,8$

$3,5 - 2,5 = 1$

$A = 4,8.1$

$A = 4,8\ m^2$

tilibra

3)

$4,8 + 0,8 = 5,6 \quad \ell = 4 \rightarrow A = 5,6 \cdot 4$

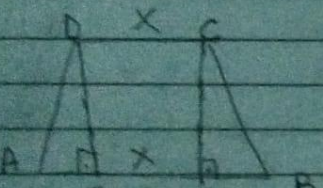
$A = 22,4\ m^2$

Somar:

$15 + 4,8 + 22,4 =$

$\boxed{44,2\ m^2}$ (E)

⑦



$(DCFE) = b.h = x.h$

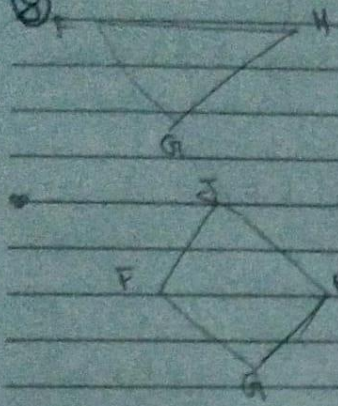
$(ABCD) = 36\ m^2 = \frac{(B+b).h}{2}$

$\frac{(x+2x).h}{2} = 36 \quad x.h = \frac{72}{3} =$

$(x+2x).h = 72 \quad = \boxed{24\ m^2}$

$3x.h = 72$

⑧



Área do ΔFGH é $\frac{1}{4}$ da área do ΔIBJ

altura $\Delta FGH = 1$ e $\Delta ABJ = 4$

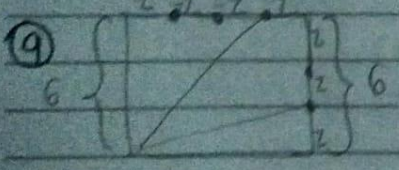
área:

2 . área do ΔFGH

área do losango → $\frac{2}{4}$ da área de ΔABJ

simplificando $\frac{2}{4} \rightarrow \boxed{\frac{1}{2}}$ (D)

⑨



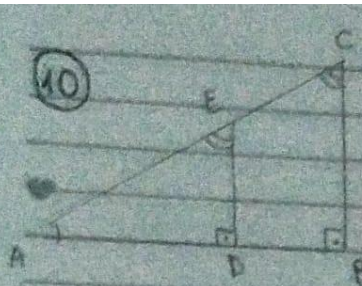
$48 - \left(\frac{6.6}{2} + \frac{8.2}{2}\right)$

$48 - (18 + 8)$

$48 - 26$

$\boxed{22}$ (E)

(10)



$\Delta ADE \sim \Delta ABC$

$\left(\frac{AD}{AB}\right)^2 = \frac{A_E}{A_G}$ $\quad \frac{AD^2}{64} = \frac{1}{2}$

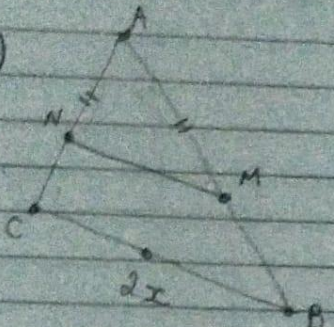
$\left(\frac{AD}{8}\right)^2 = \frac{\frac{1}{2}A_G}{A_G}$ $\quad 2AD^2 = 64$

$AD^2 = 32$

$AD = \sqrt{32} = \sqrt{16 \cdot 2} = |4\sqrt{2}|$

(A)

(11)



$S_{ABC} = 96\ m^2$

$\overline{MN}$ → linha média do ΔABC

$\frac{S_{AMN}}{S_{ABC}} = k^2 \rightarrow \frac{S_{AMN}}{96} = \left(\frac{1}{2}\right)^2$

$S_{AMN} = \frac{96}{4} = 24\ m^2$

$S_{MBCN} = S_{ABC} - S_{AMN} \rightarrow S_{MBCN} = 96 - 24$

$S_{MBCN} = |72\ m^2|$