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Áreas de quadriláteros e triângulos

Exercícios 1, 2 e 3

01.

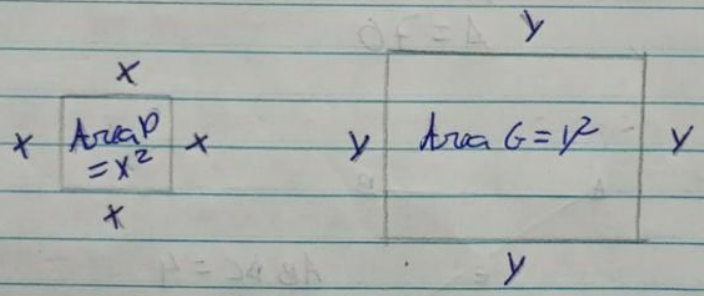
a) $\frac{36m^2}{400} = 0,09m^2$

B) $l^2 = 0,09m^2$

$l = 0,03m$

$4 \cdot 0,3 = 1,2m$

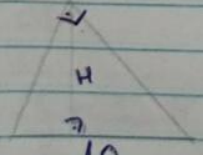
02.



Area G = 2. Area P

$Y = X\sqrt{2}$ Resposta D

03



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

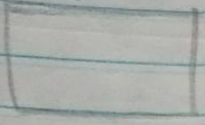
$10H = 30$

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

$H = 3$ Resposta D

Exercícios 4 e 5

04.



lado = 3 metros

$A = B \cdot H$
$A = x \cdot (x+3)$
$A = x^2 + 3x$

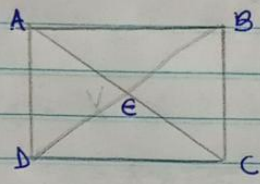
$A + 16 = (x^2+1) + (3x+1)$
$16A = 2x^2 + 4x$
$A = 2x^2 + 4x + 16$

$\Delta = 4^2 - 4 \cdot 2 \cdot 16$
$\Delta = 16 + 128$
$\Delta = 144$

$\frac{-4 \pm 12}{4}$ $x1 = 2$
$x^2 = -4$

$A = 144 - 4/2$
$A = 70$

05.



$AB \cdot DC = 4$

Dec.

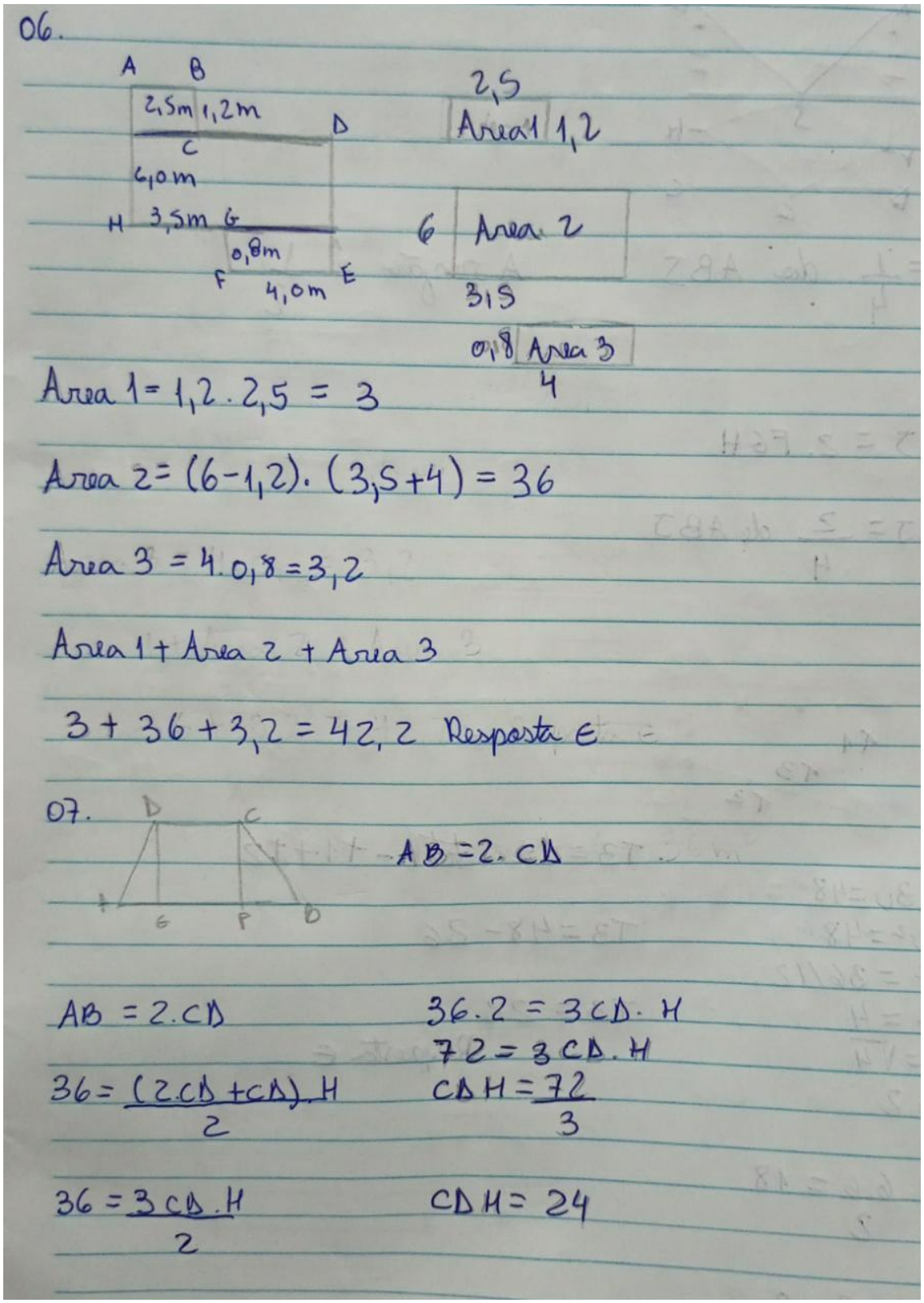
$A = \frac{2 \cdot H}{2}$

$H = \pi$

$A = \sqrt{3}$

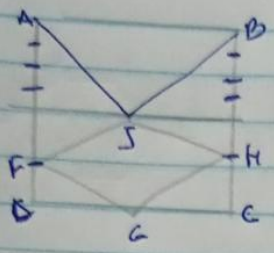
Resposta B

Exercícios 6 e 7



Exercícios 8 e 9

08.

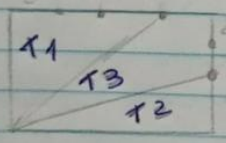


$FGH = \frac{1}{4}$ do ABJ A razão é $\frac{1}{2}$

$FGHJ = 2 \cdot FGH$

$FGHJ = \frac{2}{4}$ de ABJ

09.



$4u \cdot 3u = 48$
$12u^2 = 48$
$u^2 = 36/12$
$u^2 = 4$
$u = \sqrt{4}$
$u = 2$

$T1 = \frac{6 \cdot 6}{2} = 18$

$T2 = \frac{8 \cdot 2}{2} = 8$

T3 = Área total − T1 + T2

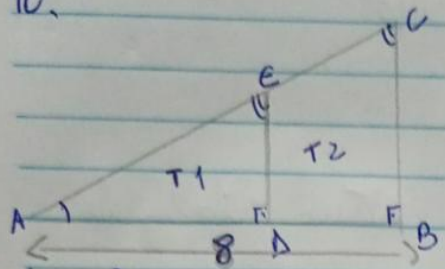
T3 = 48 − 26

T3 = 22

Resposta E

Exercícios 10 e 11

10.



$\Delta ADE \sim \Delta ABC$

$\left(\frac{AD}{AB}\right)^2 = \frac{A_{T1}}{A_{T2}}$

$\left(\frac{AD}{8}\right)^2 = \frac{\frac{1}{2}A_{T2}}{A_{T2}}$

$\frac{AD^2}{64} = \frac{1}{2}$

$2AD^2 = 64$

$AD^2 = 64/2$

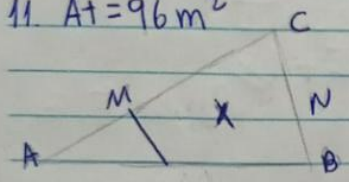
$AD^2 = 32$

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

$AD = 4\sqrt{2}$

Resposta A

11. $A_T = 96 m^2$



$\Delta ABC = X + \Delta AMN$

$X = \Delta ABC - \Delta AMN$

$MN = \frac{1}{2}$

$\Delta ABC \sim \Delta AMN$

$\frac{\Delta AMN}{\Delta ABC} = \frac{1}{4}$

$X = 96 - \frac{1}{4}(96)$

$X = 96 - 24$

$X = 72 m^2$