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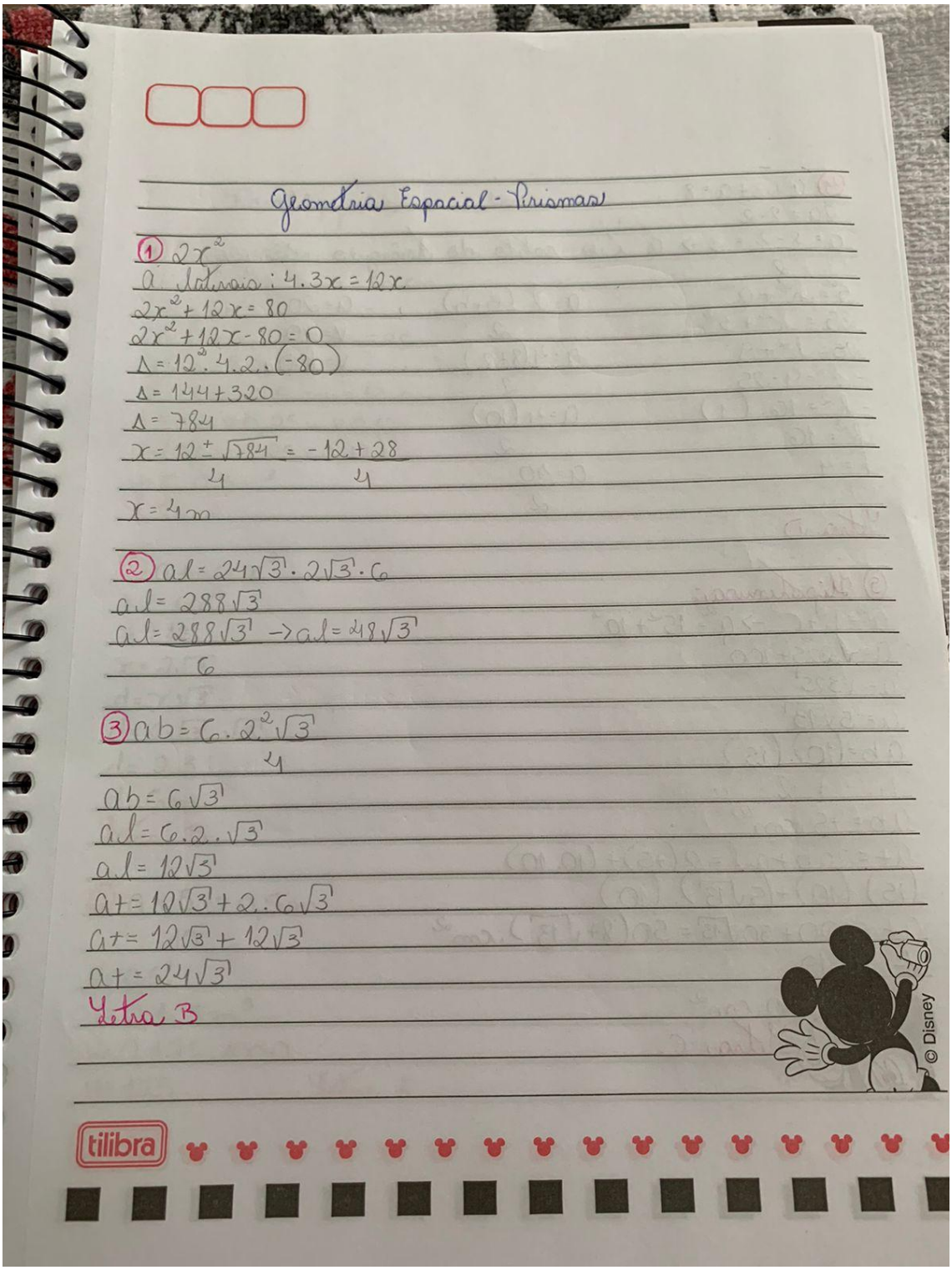
CTII 317

Prismas/Paralelepípedo Reto Retângulo



④ $a+2+a=8$

$2a=8-2$

$a=8-2=3 \rightarrow$ a é o cateto do triângulo retângulo

$5^2=h^2+a^2$

$25=h^2+3^2$

$25=h^2+9$

$-h^2=9-25$

$-h^2=16.(-1)$

$h^2=16$

$h=4$

$a=\frac{h.(B+b)}{2}$

$a=\frac{4.(8+2)}{2}$

$a=\frac{4.(10)}{2}$

$a=\frac{40}{2}$

$a=20$

$V=20$

$V=100$ //

Letra D

⑤ Hipotenusa:

$a^2=b^2+c^2 \rightarrow a^2=15^2+10^2$

$a=\sqrt{225+100}$

$a=\sqrt{325}$

$a=5\sqrt{13}$

$ab=\frac{(10).(15)}{2}$

$ab=75.cm^2$

$a+=2ab+a.l=2(75)+(10.10)$

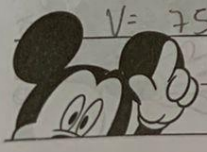
$(15).(10)+(5\sqrt{13}).(10)$

$a+=400+50\sqrt{13}=50(8+\sqrt{13}).cm^2$

$V=75.10$

$V=750.cm^2$

Letra C



Paralelepípedos e cubos

① Comprimento:
51 cm − 2 · 0,5 cm = 50 cm
Largura:
26 cm − 2 · 0,5 cm = 25
Altura:
12,5 cm − 0,5 cm = 12 cm
0,50 m × 0,25 m × 0,12 m
V = (0,5 × 0,25 × 0,12)
$V = 0,015 m^3$
Letra A

② $a + = 6 \cdot x^2$
$72 = 6x^2$
$x^2 = 12$
$x = 2\sqrt{3}$
$d = x\sqrt{3}$
$d = 2\sqrt{3} \cdot \sqrt{3}$
$d = 2 \cdot 3$
$d = 6 m$
Letra B

③ $a = \frac{5}{10} = 0,5 m$
$V = 0,5^3$
$V = 0,125 m^3$
$V = 0,125 \cdot 1000$
$V = 125$ Letra A

tilibra

④ $1^3 = 1m^3$

$V = 1000\,l - 1\,l = 999\,l$

$1\,m$	$1000\,l$
$(1-x)$	$999\,l$

$1000(1-x) = 999$

$1000x = 999 - 1000$

$1000x = 1$

$x = \frac{1}{1000}$

$x = 0{,}001\,m$

⑥ $Vc = l^3$

$Vc = (4\sqrt{3})^3$

$Vc = 64 \cdot 3\sqrt{3}$

$Vc = 192\sqrt{3}$

$Vc = ab \cdot h$

$Vc = h \cdot \frac{(l^2 \cdot \sqrt{3})}{4}$

$192\sqrt{3} = h \cdot \frac{(16 \cdot 3\sqrt{3})}{4}$

$192\sqrt{3} = h \cdot 48\sqrt{3}$

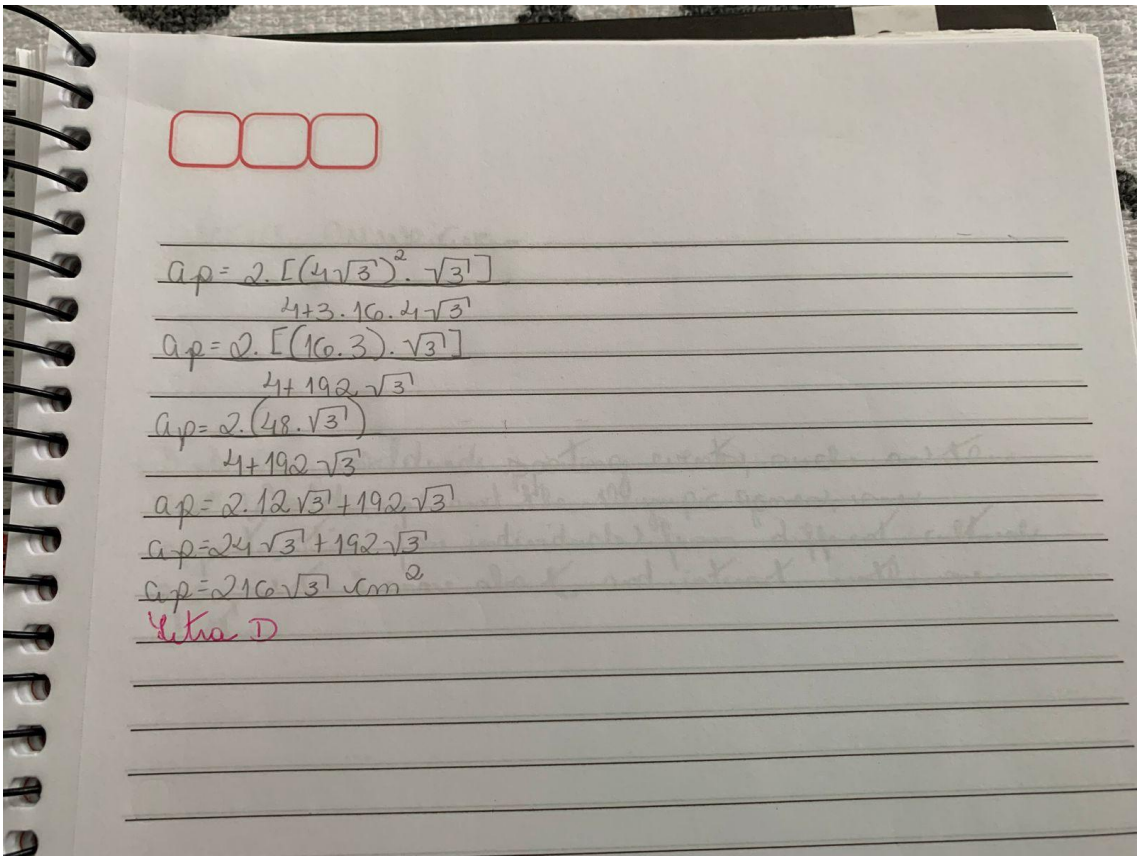
$h = \frac{(4 \cdot 192\sqrt{3})}{48\sqrt{3}}$

$h = 4 \cdot 4$

$h = 16$

$ap = 2 \cdot ab + al$

tilibra



$A_p = 2.[(4\sqrt{3})^2 . \sqrt{3}]$

$4+3.16.4\sqrt{3}$

$A_p = 2.[(16.3).\sqrt{3}]$

$4+192.\sqrt{3}$

$A_p = 2.(48.\sqrt{3})$

$4+192\sqrt{3}$

$A_p = 2.12\sqrt{3}+192.\sqrt{3}$

$A_p = 24\sqrt{3}+192\sqrt{3}$

$A_p = 216\sqrt{3}\ cm^2$

Letra D