AREA DO CÍRCULO

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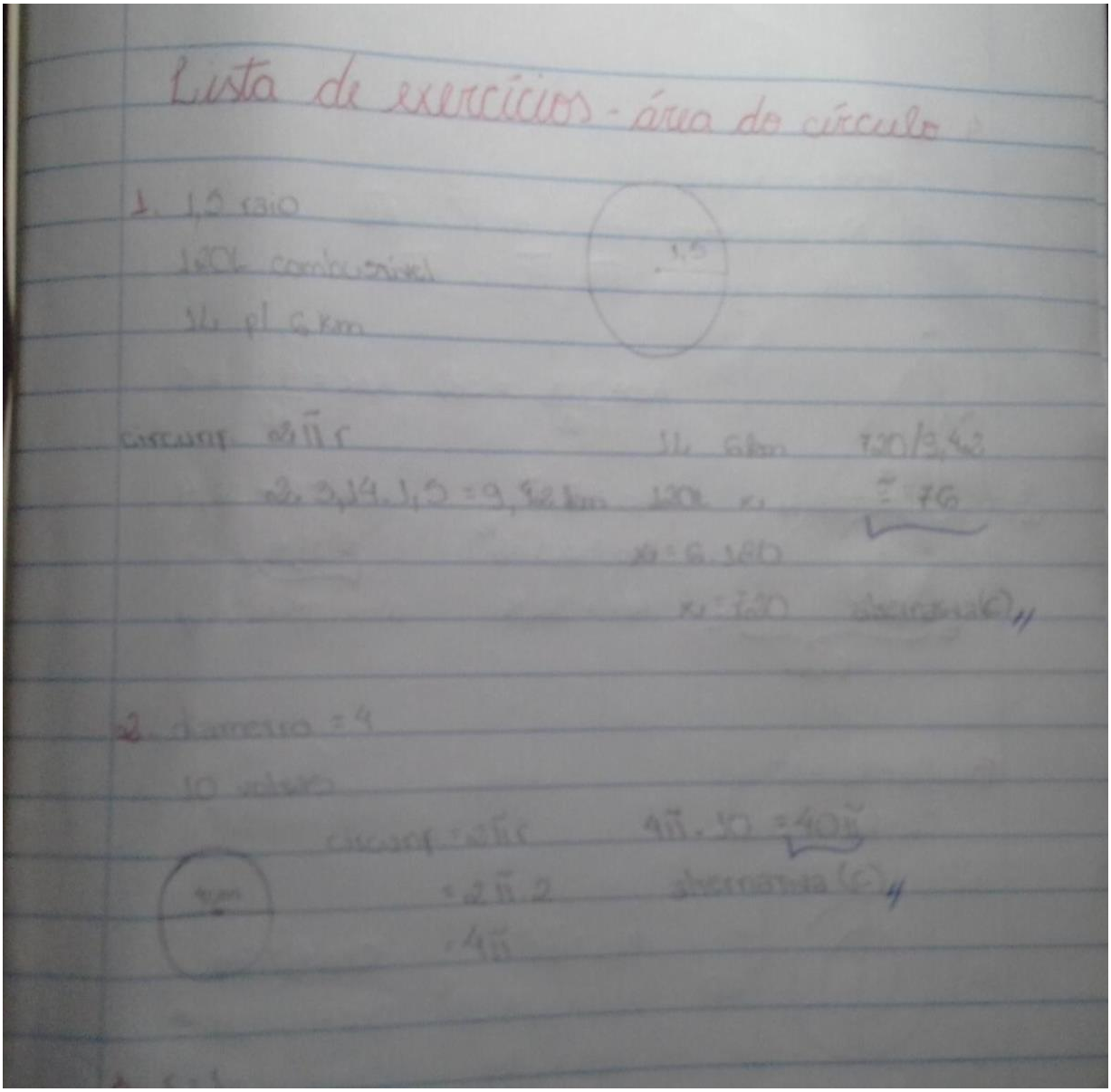
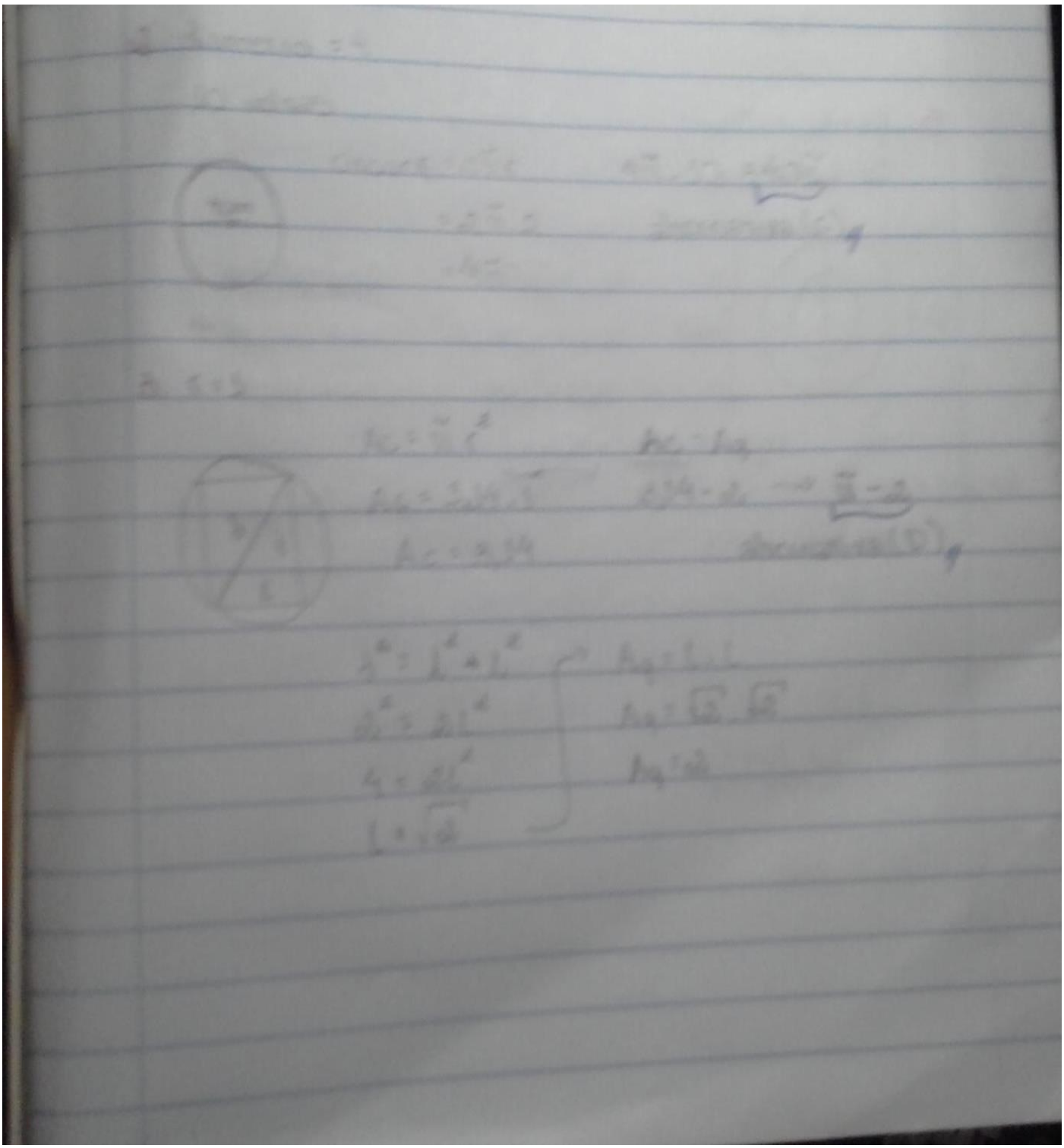


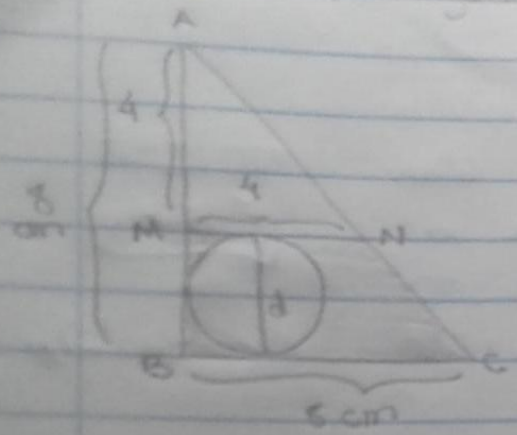


4. ΔABC

catetos = 8 cm

M e N são pontos médios de $\overline{AC}$ e $\overline{AB}$

circunf. tangencia $\overline{MN}$, $\overline{BC}$ e $\overline{MN}$



$A_{\Delta ABC} = \frac{8 \cdot 8}{2} = 32$ $A_{\Delta MNC} = \frac{4 \cdot 4}{2} = 8$

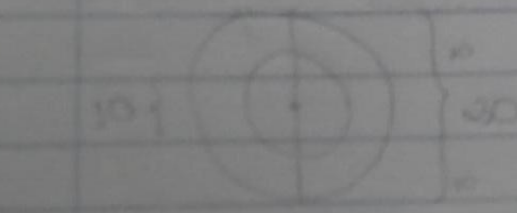
$A_O = \pi \cdot r^2$ $32 - 8 - 12,4$

$A_O = 3,1 \cdot 2^2$ $= 11,6$

$A_O = 12,4$ alternativa (A) //

5. $C_{O1} - R_{O1} = 10$ cm

$C_{O2} - R_{O2} = 5$ cm



$A_{O1} = \pi r^2$ $C_{O1} = 2\pi r$

$A_{O1} = 3,14 \cdot 10^2$ $C_{O1} = 2 \cdot 3,14 \cdot 5$

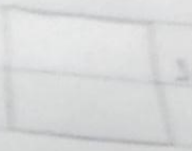
$A_{O1} = 314$ $C_{O1} = 31,4$

vazão = $\frac{314}{31,4} = 10$ cm

alternativa (C) //

6. 1 fio → diâmetro = $0{,}02 \cdot 10^{-3}$ mm

cobertura → 1 cm^2



1 cm = 10 mm

uma pilha (10 mm) : $10 \div 0{,}02 \cdot 10^{-3}$

$10 \div (0{,}02 \cdot 10^{-3})$

$10 \div \left(\frac{1}{50} \cdot 10^{-3}\right)$

$5 \cdot 10^5 \cdot 5 \cdot 10^6$

$25 \cdot 10^{10}$

$10 \cdot \frac{50}{10^{-3}}$

alternativa (C) $10^{1-(-3)} \cdot 50$

$10^4 \cdot 50$

500000

7. terreno → 15 m frente e 40 m profundidade

casa → losango → diagonais 12m e 16m

piscina → circular → r = 4 m

vestiário → quadrado → L = 3,5 m

gramado → cada m^2 custa 2,90

Área = $15 \cdot 40 = 600\ m^2$

Área = $\frac{4 \cdot 12}{2} = 144\ m^2$

$144 + 50,24 + 12,25 = 206,49$

$600 - 206,49 = 393,51$

A piscina = $\pi \cdot r^2$

$= 3,14 \cdot 4^2$

$= 50,24\ m^2$

$393,61 \cdot 2,9$

$= 994,98$

A vestiário = $3,5^2$

$= 12,25$

alternativa (C)