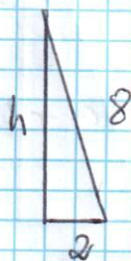
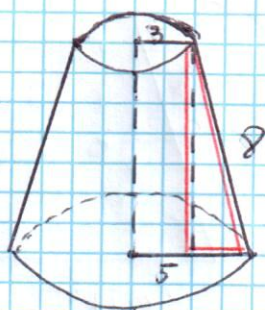


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15 03 12

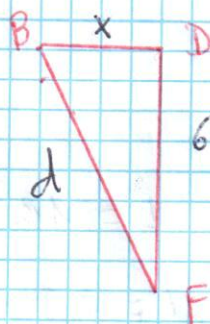
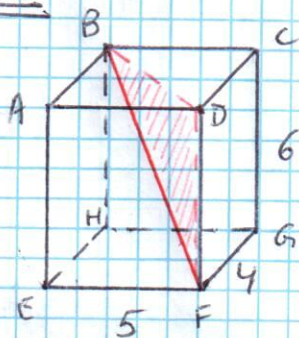
(47)



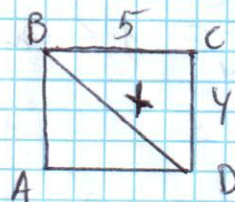
$$8^2 = 2^2 + h^2 // h^2 = 8^2 - 2^2 = 60 // h = \sqrt{60} = \underline{\underline{7'75 \text{ cm}}}$$

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(41)



Para hallar d
necesitamos
antes calcular X



$$x^2 = 5^2 + 4^2 = 41$$

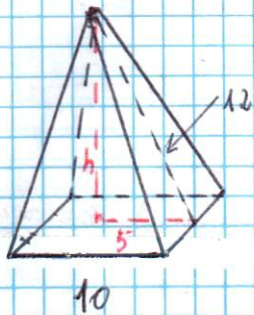
$$x = \sqrt{41} = 6'4 \text{ cm.}$$



$$BDF \rightarrow d^2 = 6^2 + 6'4^2 = 76'96$$

$$d = \sqrt{76'96} = \underline{\underline{8'77 \text{ cm}}}$$

(44)

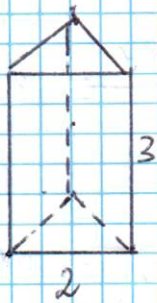


$$12^2 = 5^2 + h^2$$

$$h^2 = 12^2 - 5^2 = 119$$

$$h = \sqrt{119} = 10'91 \text{ cm.}$$

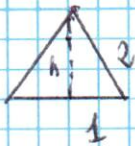
(51)



$$A_{\text{lado}} = b \cdot h = 3 \cdot 2 = 6 \text{ cm}^2$$

$$A_{\text{lateral}} = A_{\text{lado}} \cdot 3 = 18 \text{ cm}^2$$

$$A_{\text{Base}} = \frac{b \cdot h}{2}$$



$$2^2 = h^2 + 1^2 // h^2 = 2^2 - 1^2 = 3$$

$$h = \sqrt{3}$$

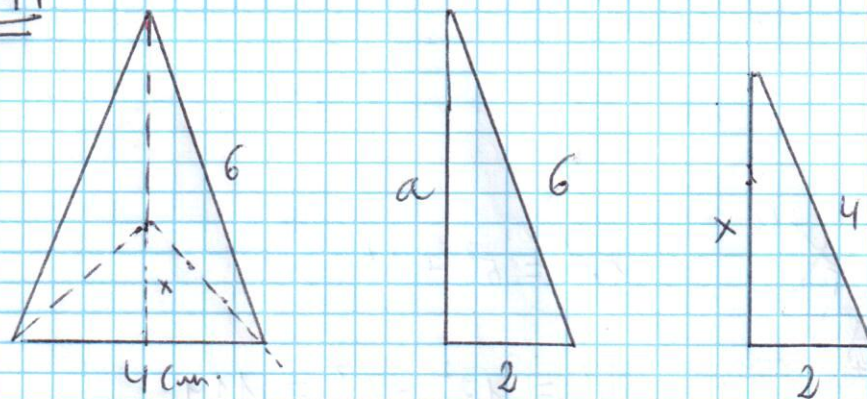
$$A_{\text{Base}} = \frac{2 \cdot \sqrt{3}}{2} = 1'73$$

$$A_{2 \text{ Bases}} = 1'73 \cdot 2 = 3'46$$

$$A_{\text{total}} = A_{\text{lateral}} + A_{2 \text{ bases}} = 18 + 3'46 = \underline{\underline{21'46 \text{ cm}^2}}$$

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(54)



$$6^2 = 2^2 + a^2 // a^2 = 6^2 - 2^2 = 32$$

$$a = \sqrt{32} = 5'66$$

$$A_{\text{lateral}} = 3 \cdot A_{\text{lado}} = 3 \cdot \frac{b \cdot a}{2} = 3 \cdot \frac{4 \cdot 5'66}{2} = \underline{\underline{33'96 \text{ cm}^2}}$$

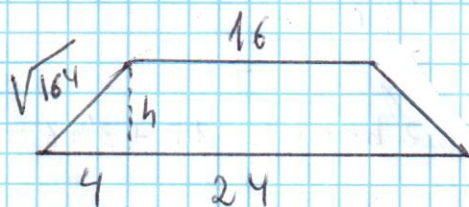
$$4^2 = x^2 + 2^2 // x^2 = 4^2 - 2^2 = 12 // x = \sqrt{12} = 3'5$$

$$A_{\text{base}} = \frac{b \cdot h}{2} = \frac{4 \cdot 3'5}{2} = \underline{\underline{7}}$$

$$A_{\text{total}} = A_{\text{lat}} + A_{\text{base}} = 33'96 + 7 = \underline{\underline{40'96 \text{ cm}^2}}$$

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(70 b)



$$24 - 16 = 8$$

$$8/2 = 4$$

$$(\sqrt{164})^2 = 4^2 + h^2 // h^2 = (\sqrt{164})^2 - 4^2 = 164 - 16 = 148$$

$$h = \sqrt{148} = 12'17 \text{ m.}$$

$$A = \frac{(B+b) \cdot h}{2} = \frac{(24+16) \cdot 12'17}{2} = \underline{\underline{243'4 \text{ cm}^2}}$$

(101) $\begin{cases} a_1 = 20 \\ d = 5 \end{cases}$

$$S_n = \frac{(a_1 + a_n) \cdot n}{2}$$

No conocemos ni " a_n " ni " n "

$$a_n = a_1 + (n-1)d = 20 + (n-1) \cdot 5 = 20 + 5n - 5 = 15 + 5n$$

$$\underline{a_n = 15 + 5n}$$

$$S_n = \frac{(a_1 + a_n) \cdot n}{2} = \frac{[a_1 + (15 + 5n)] \cdot n}{2} =$$

$$\text{E } 1350 = \frac{[20 + (15 + 5n)] \cdot n}{2} = \frac{20n + 15n + 5n^2}{2} =$$

$$= \frac{35n + 5n^2}{2}$$

$$1350 \cdot 2 = 35n + 5n^2$$

$$2700 = 35n + 5n^2$$

$$5n^2 + 35n - 2700 = 0$$

$$n = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-35 \pm \sqrt{35^2 - (4 \cdot 5 \cdot (-2700))}}{2 \cdot 5} =$$

$$= \frac{-35 \pm \sqrt{1225 + 54000}}{10} = \frac{-35 \pm \sqrt{55225}}{10} = \frac{-35 \pm 235}{10} =$$

$$= \begin{cases} x_1 = \frac{200}{10} = \underline{\underline{20 \text{ m}}} \\ x_2 = \frac{-270}{10} = -27 \text{ imposible} \end{cases}$$