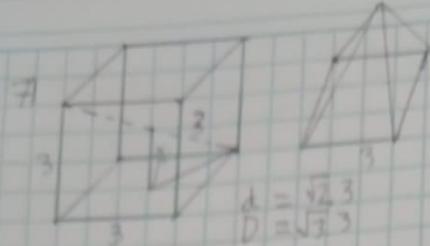
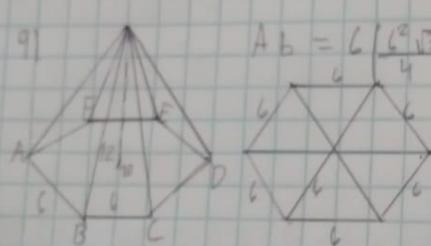
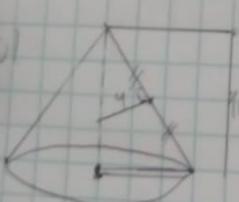


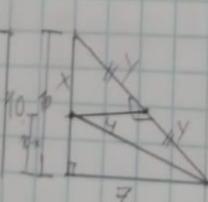
Repaso de Conos y Pirámides

7)  $d = \sqrt{27}$
 $D = \sqrt{27}$

8)  $A_r = 216\pi$
 $\pi r^2 + \pi r^2 = 216\pi$
 $3K^2 + (3K)^2 = 216$
 $15K^2 + 9K^2 = 216$
 $24K^2 = 216$
 $K^2 = 9$
 $K = 3$

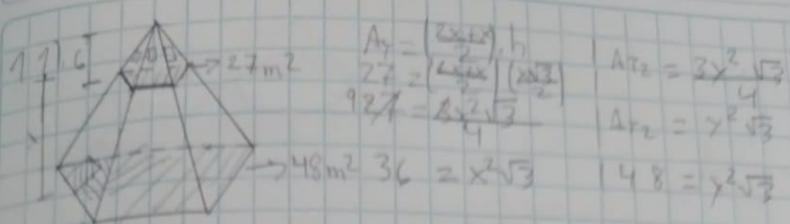
9)  $A_b = 6 \left(\frac{6^2 \sqrt{3}}{4} \right)$
 $A_b = 6 \left(\frac{36 \sqrt{3}}{4} \right)$
 $A_b = 6 \left(9 \sqrt{3} \right)$
 $A_b = 54 \sqrt{3}$

10)  $A_L = \pi \cdot r \cdot g$
 $= \pi \cdot z \cdot 2y$
 $= \pi \cdot 2\sqrt{5} \cdot 4\sqrt{5}$
 $= 8 \cdot 5\pi$
 $= 40\pi$

11)  $y^2 + 16 = x^2$
 $(2y)^2 + z^2 = 10^2$
 $4(x^2 - 16) + z^2 = 10^2$
 $4(36 - 16) + z^2 = 10^2$
 $80 + z^2 = 100$
 $z^2 = 20$
 $z = 2\sqrt{5}$

12) $y^2 + 16 = 3^6$
 $y = \sqrt{20}$
 $y = 2\sqrt{5}$

13) $(10-x)^2 + z^2 = a^2$
 $y^2 + 16 = a^2$
 $(10-x)^2 + 10^2 = 4(x^2 - 16) + 10^2$
 $100 - 20x + x^2 + 100 = 4x^2 - 64 + 100$
 $0 = 4x^2 + 20x - 264$
 $0 = x^2 + 5x - 66$
 $x = 11$
 $x = -6$



$$A_1 = \frac{a^2}{4} \cdot h \rightarrow 27m^2$$

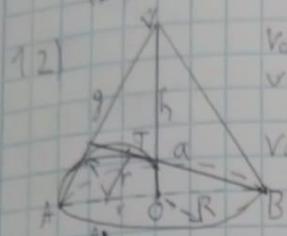
$$A_2 = \frac{a^2}{4} \cdot (2\sqrt{3}) \rightarrow 48m^2$$

$$36 = 2x^2\sqrt{3}$$

$$A_{\text{top}} = \frac{3x^2\sqrt{3}}{4}$$

$$A_{\text{side}} = x^2\sqrt{3}$$

$$148 = x^2\sqrt{3}$$



$$V_a = \frac{1}{3} \pi r^2 h$$

$$V_c = \frac{1}{3} \pi \frac{a^2}{8} h$$

$$V_c = \frac{1}{3} \pi \frac{a^2}{8} \cdot \frac{\sqrt{9^2 - a^2}}{2}$$

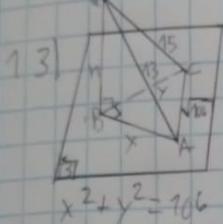
$$3r^2 = r^2 + a^2 \quad | \quad 9^2 = r^2 + a^2$$

$$9r^2 = r^2 + a^2 \quad | \quad 8r^2 = a^2$$

$$2\sqrt{2}r = a \quad | \quad \sqrt{9^2 - a^2} = h$$

$$\sqrt{h^2 + a^2} = h$$

$$\sqrt{9^2 - a^2} = h$$



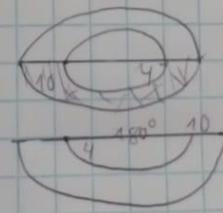
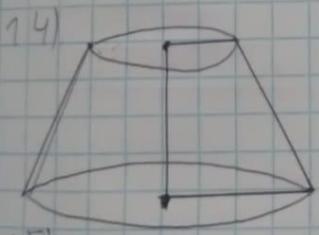
$$h^2 + x^2 = 13^2 \rightarrow x^2 = 169 - 144 = 25$$

$$x = 5$$

$$h^2 + y^2 = 15^2 \rightarrow y^2 = 225 - 144 = 81$$

$$y = 9$$

$$V = \frac{1}{3} \left[\frac{5 \cdot 9}{2} \cdot 12 \right] \rightarrow V = 270/3 \rightarrow V = 90$$

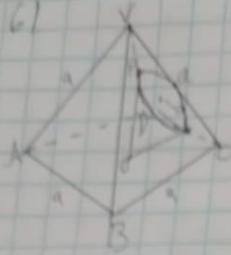


$$h = 10 - 4$$

$$h = 6$$

15)

16)



$$\left(\frac{a}{2}\right)^2 + r^2 = (2r)^2$$

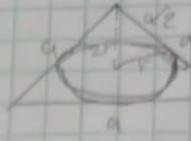
$$\frac{a^2}{4} + r^2 = 4r^2$$

$$\frac{a^2}{4} = 3r^2$$

$$a^2 = 12r^2$$

$$\frac{a^2}{12} = r^2$$

$$a\sqrt{12} = r$$



$$\left(\frac{a}{2}\right)^2 = r^2 + D^2$$

$$\frac{a^2}{4} = r^2 + D^2$$

$$\frac{12r^2}{4} = r^2 + D^2$$

$$3r^2 = r^2 + D^2$$

$$\sqrt{2}r = D$$

$$V = \frac{\pi}{3} r^2 \cdot D$$

$$V = \frac{\pi}{3} r^2 \cdot \sqrt{2}r$$

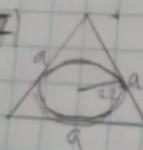
$$V = \frac{\sqrt{2}\pi}{3} r^3$$

$$V = \frac{\sqrt{2}\pi}{3} \cdot \frac{a^3}{12\sqrt{2}}$$

$$V = \frac{\sqrt{2}\pi}{24\sqrt{2}} a^3$$

18)

17)



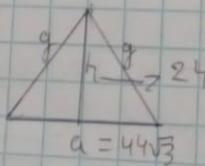
$$6r^2 + (a/2)^2 = a^2$$

$$6r^2 = 3a^2/4$$

$$4r^2 = a^2/2$$

$$2r = a/\sqrt{2}$$

$$44\sqrt{3} = a$$



$$Al = 3 \cdot \frac{1}{2} ab$$

$$Al = 3 \cdot \frac{1}{2} \cdot 44\sqrt{3} \cdot 24$$

$$Al = 1584\sqrt{3}$$

19)