

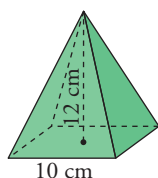
PÁGINA 215

¿Sabes hallar la superficie de algunos poliedros y cuerpos de revolución, obteniendo previamente alguno de sus elementos, si fuera necesario?

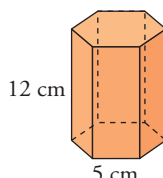
Halla el área total de los siguientes cuerpos:

1

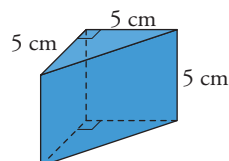
(a)



(b)



(c)



$$\text{a) } h = 13 \text{ cm}$$

$$A_{\text{TOTAL}} = 100 + 4 \cdot 65 = 360 \text{ cm}^2$$

$$\text{b) } a = \sqrt{18,75} \approx 4,33 \text{ cm}$$

$$A_{\text{BASES}} = 6 \cdot 5 \cdot 4,33 \approx 130 \text{ cm}^2$$

$$A_{\text{LAT}} = 360 \text{ cm}^2$$

$$A_{\text{TOTAL}} = 490 \text{ cm}^2$$

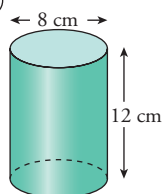
$$\text{c) } x = 5\sqrt{2} \approx 7,07 \text{ cm}$$

$$A_{\text{BASES}} = 2 \cdot 12,5 = 25 \text{ cm}^2 \quad A_{\text{LAT}} = 85,36 \text{ cm}^2$$

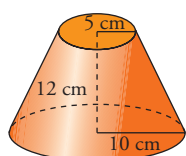
$$A_{\text{TOTAL}} = 110,35 \text{ cm}^2$$

2

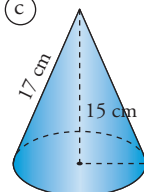
(a)



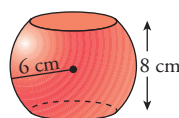
(b)



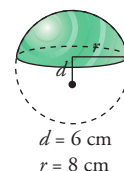
(c)



(d)



(e)



$$\text{a) } A_{\text{TOTAL}} = 4^2 \cdot \pi + 12 \cdot 2 \cdot \pi \cdot 4 = 351,68 \text{ cm}^2$$

$$\text{b) } A_{\text{TOTAL}} = 1004,8 \text{ cm}^2$$

$$\text{c) } r = 8 \text{ cm}$$

$$A_{\text{LAT}} = 427,04 \text{ cm}^2 \quad A_{\text{BASE}} = 200,96 \text{ cm}^2$$

$$A_{\text{TOTAL}} = 628 \text{ cm}^2$$

$$\text{d) } A_{\text{TOTAL}} = 301,44 \text{ cm}^2$$

$$\text{e) } \sqrt{6^2 + 8^2} = R = 10 \text{ cm}$$

$$h = 4 \text{ cm}$$

$$A_{\text{TOTAL}} = 251,2 \text{ cm}^2$$