

CUERPOS GEOMÉTRICOS

1. a) A. LATERAL: PRISMA PENTAGONAL = $5 \cdot 7 \cdot 12 = 420 \text{ cm}^2$

b) A. LATERAL: PIRÁMIDE HEXAGONAL = $6 \cdot \frac{9 \cdot 11}{2} = 297 \text{ cm}^2$

2. a) A. LATERAL + 2 A. BASES = $4 \cdot 12 \cdot 14 + 2 \cdot 12^2 = 672 + 288 = 960 \text{ cm}^2$

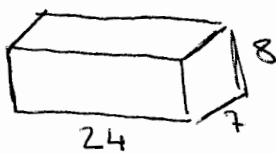
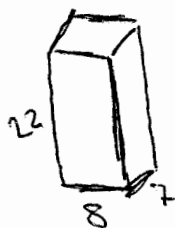
b) A. LATERAL + A. BASE = $4 \cdot \frac{10 \cdot 13}{2} + 10^2 = 260 + 100 = 360 \text{ dm}^2$

c) A. LATERAL + A. BASES = $4 \cdot \frac{(12+8) \cdot 11}{2} + 12^2 + 8^2 = 440 + 144 + 64 = 648 \text{ m}^2$

3. a) VOLUMEN PRISMA = A. BASE \cdot ALTURA = $14^2 \cdot 17 = 3332 \text{ cm}^3$

b) VOLUMEN PIRÁMIDE = $\frac{\text{A. BASE} \cdot \text{ALTURA}}{3} = \frac{123 \cdot 13}{3} = 533 \text{ cm}^3$

4.



$$a = \sqrt{14^2 + 10^2} = 17'2$$

$$V = 22 \cdot 8 \cdot 7 + 24 \cdot 8 \cdot 7 + \frac{14 \cdot 10 \cdot 7}{2} = 1232 + 1344 + 490 = 3066 \text{ cm}^3$$

$$A_T = 32 \cdot 7 + 22 \cdot 7 + 7 \cdot 8 + 14 \cdot 7 + 8 \cdot 7 + 2 \cdot 32 \cdot 8 + 2 \cdot \frac{(18+8) \cdot 14}{2} + 17'2 \cdot 7 = 1584'4 \text{ cm}^2$$

5. a) A. TOTAL = A. BASES + A. LATERAL = $2 \cdot \pi \cdot 11^2 + 1174'95 = 1935'21 \text{ m}^2$

$$\text{A. LATERAL} = 2 \pi r \cdot \text{ALTURA} = 2 \pi 11 \cdot 17 = 1174'95 \text{ m}^2$$

b) A. TOTAL = A. BASES + A. LATERAL = $\pi \cdot 9^2 + \pi \cdot 9 \cdot 14 = 650'3 \text{ cm}^2$

c) $g^2 = 5^2 + 12^2$; $g = \sqrt{25 + 144} = 13$

$$\text{A. TOTAL} = \text{A. BASES} + \text{A. LATERAL} = \pi \cdot 5^2 + \pi \cdot 5 \cdot 13 = 282'74 \text{ dm}^2$$

d) A. LATERAL = $\pi (15+11) \cdot 12 = 980'17 \text{ m}^2$

$$\text{A. TOTAL} = \text{A. BASES} + \text{A. LATERAL} = \pi \cdot 15^2 + \pi \cdot 11^2 + 980'17 = 2067'16 \text{ m}^2$$