

GEOMETRIA

III E

CONSOLIDAMENTO

E RECUPERO

X TUTTI

FORMULE $\pi = 3,14$



$$PG = C = 2 \cdot \pi \cdot r \rightarrow r = \frac{PG}{2\pi}$$

$$AB = \pi \cdot r^2 \rightarrow r = \sqrt{\frac{AB}{\pi}}$$

$$AC = PG \times h$$

$$\downarrow$$

$$C \times h$$

$$\downarrow$$

$$(2 \cdot \pi \cdot r) \times h \rightarrow r = \frac{AC}{2 \cdot \pi \cdot h}$$

$$\downarrow$$

$$h = \frac{AC}{2 \cdot \pi \cdot r}$$

$$At = (AB \times 2) + AC$$

$$V = AB \times h$$

PROBLEMA GUIDA

DATI

INCOGNITE

$$\overline{AB} = r = 9 \text{ cm}$$

$$At = ?$$

$$\overline{BC} = h = 24 \text{ cm}$$

$$V = ?$$

SOLGIMENTO

$$PG = 2 \cdot \pi \cdot r = 2 \cdot \pi \cdot 9 = 18\pi \text{ cm}$$

$$AB = \pi \cdot r^2 = \pi \cdot 9^2 = 81\pi \text{ cm}^2$$

$$AC = PG \times h = 18\pi \times 24 = 432\pi \text{ cm}^2$$

$$At = (AB \times 2) + AC = (81\pi \times 2) + 432\pi = 162\pi + 432\pi = 594\pi \text{ cm}^2$$

$$V = AB \times h = 81\pi \times 24 = 1944\pi \text{ cm}^3$$

PROBLEMI DA SVOLGERE

1) DATI

INCOGNITE

$$\overline{AB} = 3 \text{ cm}$$

$$At = ?$$

$$\overline{BC} = 21 \text{ cm}$$

$$V = ?$$

2)

DATI

$$\overline{AB} = 11 \text{ cm}$$

$$\overline{BC} = 14 \text{ cm}$$