

EJ PAG 201

N: 149

DATI

$$r_1 = 12 \text{ cm}$$

$$A_{c2} = \frac{4}{9} A_{c1}$$

RICHIESTA

$$r_2 = ? \rightarrow r = \sqrt{\frac{A}{\pi}}$$

$$A = r^2 \pi$$

SOLGIMENTO

$$A_{c1} = r_1^2 \pi = 12^2 \pi = 144 \pi \text{ cm}^2$$

$$A_{c2} = 144 \pi \cdot \frac{4}{9} = 16 \cdot 4 \pi = 64 \pi \text{ cm}^2$$

$$r_2 = \sqrt{\frac{64 \pi}{\pi}} = 8 \text{ cm}$$

N: 150

DATI

$$C_1 = 94,2 \text{ cm}$$

$$r_2 = \frac{3}{5} r_1$$

RICHIESTA

$$A_1 = ? \rightarrow r_1^2 \pi \rightarrow (r_1)$$

$$A_2 = ? \rightarrow r_2^2 \pi \rightarrow (r_2)$$

SOLGIMENTO

$$r_1 = \frac{C}{2\pi} = \frac{94,2}{6,28} = 15 \text{ cm}$$

$$r_2 = 15 \cdot \frac{3}{5} = 9 \text{ cm}$$

$$A_1 = r_1^2 \pi = 15^2 \pi \text{ cm}^2$$

$$(225 \pi = 706,5 \text{ cm}^2)$$

$$A_2 = r_2^2 \pi = 9^2 \pi = 81 \pi \text{ cm}^2 (254,34 \text{ cm}^2)$$

N: 151

DATI

$$C_1 + C_2 = 188,4 \text{ cm}$$

$$C_1 = \frac{2}{3} C_2$$

RICHIESTA

$$A_1 = ? \rightarrow r_1^2 \pi \rightarrow (r_1)$$

$$A_2 = ? \rightarrow r_2^2 \pi \rightarrow (r_2)$$

SOLGIMENTO

$$188,4 : (2+3) \cdot 2 = 188,4 : 5 \cdot 2 = 37,68 \cdot 2 = 75,36 \text{ cm } C_1$$

$$188,4 : (2+3) \cdot 3 = 188,4 : 5 \cdot 3 = 37,68 \cdot 3 = 113,04 \text{ cm } C_2$$

$$r = \frac{C}{2\pi}$$

$$r_1 = \frac{C_1}{2\pi} = \frac{75,36}{6,28} = 12 \text{ cm} \rightarrow A_1 = r_1^2 \pi = 12^2 \pi = 144 \pi \text{ cm}^2$$

$$r_2 = \frac{C_2}{2\pi} = \frac{113,04}{6,28} = 18 \text{ cm} \rightarrow A_2 = r_2^2 \pi = 18^2 \pi = 324 \pi \text{ cm}^2$$