



$$r = \frac{\sqrt{6}}{2} \text{ cm} \quad \text{Area} = \frac{3}{2} \pi \text{ cm}^2$$

$$\sqrt{6} = \frac{\sqrt{3}}{2} \cdot l \Rightarrow l = 2\sqrt{2} \text{ cm}$$

$$A_{\text{triangolo}} = \frac{2\sqrt{2} \cdot \sqrt{6}}{2} = 2\sqrt{3} \text{ cm}^2 \quad HS = \frac{\sqrt{6}}{2}$$

$$A_{\text{settore OHS}} = \frac{\pi}{3} \cdot \frac{3}{2} r^2 = \frac{\pi \cdot 3r^2}{2 \cdot 2} = \frac{\pi}{4} \text{ cm}^2$$

$$A_{\triangle HSO} = \frac{\sqrt{3}}{4} \cdot \left(\frac{\sqrt{6}}{2}\right)^2 = \frac{3\sqrt{3}}{8} \text{ cm}^2$$

$$A = \frac{\pi}{4} - \frac{3\sqrt{3}}{8} = \frac{2\pi - 3\sqrt{3}}{8} \quad AS = \frac{\sqrt{2}}{2}$$

$$A_{\triangle AHS} = \frac{1}{2} \cdot \frac{\sqrt{2}}{2} \cdot \frac{\sqrt{6}}{2} = \frac{2\sqrt{3}}{8} = \frac{\sqrt{3}}{4} \text{ cm}^2$$

estensione - punto

$$A_{\text{triangolo}} = \frac{\sqrt{3}}{4} - \left(\frac{2\pi - 3\sqrt{3}}{8}\right) = \frac{5\sqrt{3} - 2\pi}{8} \text{ cm}^2$$

$$A_{\text{int-triangolo}} = 2\sqrt{3} - 2 \left(\frac{5\sqrt{3} - 2\pi}{8}\right) = 2\sqrt{3} - \left(\frac{5\sqrt{3} - 2\pi}{4}\right) = \frac{3\sqrt{3} + 2\pi}{4}$$

$$A_{\text{bianca}} = \frac{3}{2} \pi - \left(\frac{3\sqrt{3} + 2\pi}{4}\right) = \frac{6\pi}{4} - \left(\frac{3\sqrt{3} + 2\pi}{4}\right) =$$

$$\boxed{\frac{4\pi - 3\sqrt{3}}{4} \text{ cm}^2}$$