

$$l = 2 \cdot \operatorname{sen} \alpha \cdot r$$

$$A_o = A_{\square}$$

$$\pi r^2 = l^2$$

$$\pi r^2 = (2 \cdot \operatorname{sen} \alpha \cdot r)^2$$

$$\pi r^2 = 4 \cdot (\operatorname{sen} \alpha)^2 r^2$$

$$(\operatorname{sen} \alpha)^2 = \frac{\pi}{4}$$

$$\operatorname{sen} \alpha = \frac{\sqrt{\pi}}{2}$$

$$l = 2 \cdot \frac{\sqrt{\pi}}{2} \cdot r$$

$$l = \sqrt{\pi} \cdot r$$