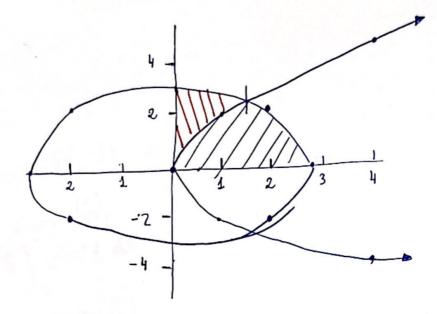


X

e



· Punto de corte:

$$x^{2}+4x-8=0 \iff x=\sqrt{-2+2\sqrt{3}} > 0$$

· Calcularemos el área de la parte positiva, ya que por sivetia será la mitad del area deseada.

Pongamos
$$(3=-2+2\sqrt{3})$$
 y colculemos d'anec, roja: $S=\int_0^{q} (\sqrt{8-x^2}-2\sqrt{x}) dx = \int_0^{q} \sqrt{8-x^2} dx - \int_0^{q} 2\sqrt{x} dx =$

$$= \int_{0}^{\sqrt{8-x^{2}}} dx - \frac{1}{3} \left[\frac{x^{3/2}}{\sqrt{8-x^{2}}} dx - \frac{4}{3} q^{3/2} \right]_{0}^{\sqrt{8-x^{2}}} dx - \frac{4}{3} q^{3/2}$$

$$\int_{0}^{\infty} \sqrt{8-x^{2}} \, dx = \int_{0}^{\infty} \frac{\cos(\sin(\frac{\alpha}{18}))}{\sqrt{8(1-\sec^{2}t)}} \cos t \cdot \sqrt{8} \cdot dt = 0$$

$$= \sqrt{8} \cdot \frac{\cos(\frac{\alpha}{18})}{\cos^{2}t} dt = 0$$

$$= \sqrt{8} \cdot \frac{\cos(\frac{\alpha}{18})}$$

Por tauto: $S = 4 \operatorname{orcsen} \left(\frac{d}{\sqrt{8}} \right) + 7 \operatorname{sen} \left(\operatorname{borcsen} \left(\frac{d}{\sqrt{8}} \right) \right) - \frac{4}{3} \frac{d}{d} \frac{3}{2}$ El área aque será: 477-25 the too 86 = xh (Áréa del circulo = 871)

(Aréa del circulo = 871) = 4 (3005 St dt : 2] = 4 (ances (4) + 1 sen Euncem (4) =

$$= \sqrt{\left(\frac{6}{88}\right)^{4} + \frac{1}{2} \operatorname{sen}\left(2\operatorname{acsen}\left(\frac{9}{88}\right)^{4}} = \sqrt{\left(\frac{6}{88}\right)^{4} + \left(\frac{1}{88}\right)^{4}}$$