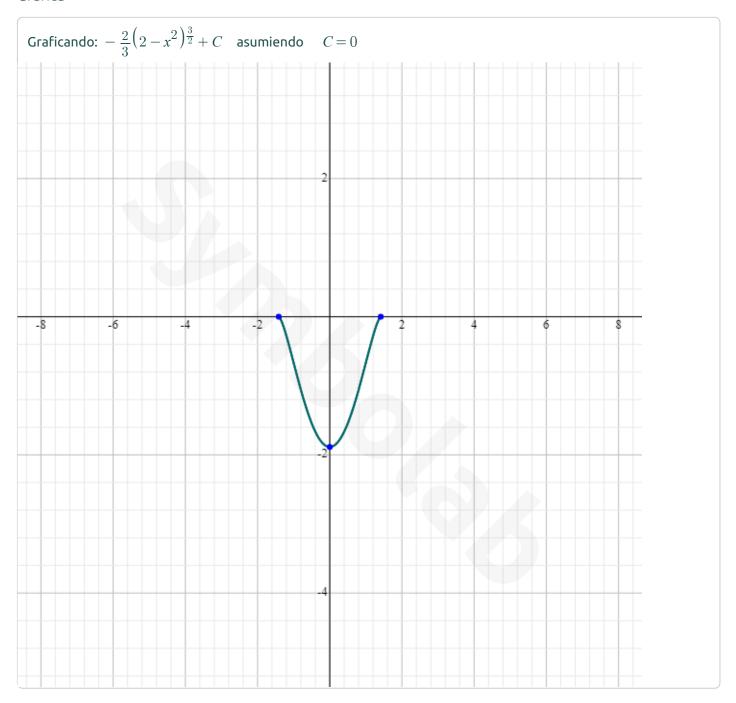


Solución

olucion	
$\int 2x\sqrt{2-x^2} dx = -\frac{2}{3} \left(2-x^2\right)^{\frac{3}{2}} + C$	
Pasos	
$\int 2x\sqrt{2-x^2}\ dx$	
Sacar la constante: $\int a \cdot f(x) dx = a \cdot \int f(x) dx$	
$=2\cdot\int x\sqrt{2-x^2}dx$	
Aplicar integración por sustitución	Mostrar pasos 🔎
$=2\cdot\int -\frac{\sqrt{u}}{2}du$	
Sacar la constante: $ \int a \cdot f(x) dx = a \cdot \int f(x) dx $	
$=2\Big(-\frac{1}{2}\cdot\int\sqrt{u}du\Big)$	
Aplicar la regla de la potencia	Mostrar pasos 🔎
$=2\left(-\frac{1}{2}\cdot\frac{2}{3}u^{\frac{3}{2}}\right)$	
Sustituir en la ecuación $u=2-x^2$	
$= 2\left(-\frac{1}{2} \cdot \frac{2}{3}\left(2 - x^2\right)^{\frac{3}{2}}\right)$	
Simplificar $2\left(-\frac{1}{2}\cdot\frac{2}{3}(2-x^2)^{\frac{3}{2}}\right): -\frac{2}{3}(2-x^2)^{\frac{3}{2}}$	Mostrar pasos 🔎
$= -\frac{2}{3} (2 - x^2)^{\frac{3}{2}}$	
Agregar una constante a la solución	This website uses cookies to
$= -\frac{2}{3} \left(2 - x^2\right)^{\frac{3}{2}} + C$	ensure you get the best experience.
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