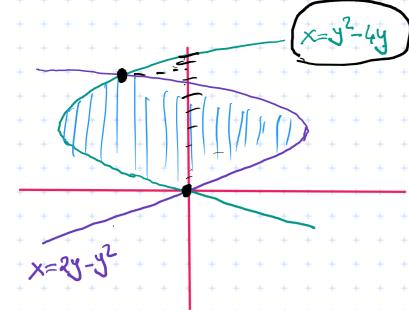


7 2 cm + 2 - f cm.



## Points of intersection

Thus the area of the region is

\$23

Find the area of the region enclosed by the  $\sqrt{-\frac{\pi}{3}} \le \times \le \frac{\pi}{3}$ y = tanx y = 2sinxy=tan x Points of intersection?  $\frac{1}{\tan x} = 2 \sin x$ (tanx-2sinx) dx T Scann-tandar  $\frac{1}{2} \frac{1}{(x)} = \tan x.$ g(x) = 2 sin x TV3

Stanx-2sinxldx

F(x).

F(-x) The energy of them  $f(x) \leq g(x)$ :

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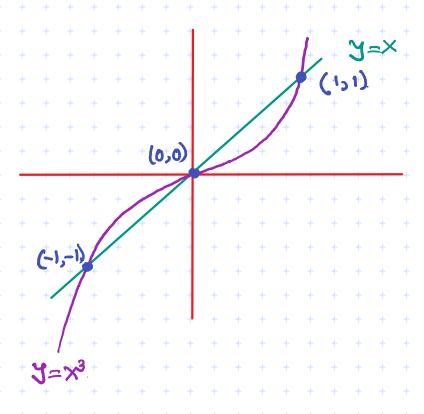
The energy of them  $f(x) \leq g(x)$ :  $=2\int_{0}^{3}(2\sin x-\tan x)dx$ The orea = + 1 1 1 f(x) - 9 (x) /2 F(x)=(tanx-2sinx)  $\int_{+}^{+} \int_{+}^{+} \frac{1}{\tan x} - 2\sin x dx$ Thomas' Calculus.
Sleward's Calculus.  $= (\tan(-x) - 2\sin(-x))$ = \- \tanx + 25 in x \ 2 Sinx-tan xldx = (- (+an x - 2sinx) 

$$+3 = +x^{3} = 1(x)^{+}$$

$$+3 = +x^{3} = 3(x)$$

## Points of intersection:

$$\int_{\mathbb{R}^{n}} (x) > g(x).$$



$$y = f(x)^{+}$$
 and  $y = g(x)^{+}$  intersect  
at  $(a,b)^{+}$ 

$$\frac{1}{1} \left( x \right) = \frac{1}{1} \left($$

 $\int (1 - \frac{1}{2} \times) dx + \int (\frac{1}{2} \times - 1 \times) dx.$