

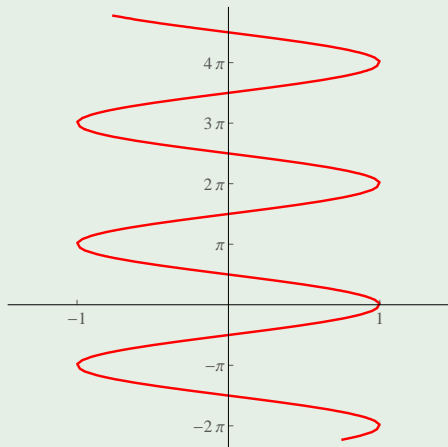
Friday, January 18

Clicker Questions

Clicker Question 1

That's a weird lookin' thing ...

What is this a graph of?



- A. $x = \sin y$
- B. $y = \sec x$
- C. $y = \tan x$
- D. $x = \cos y$
- E. $y = \csc x$

Clicker Question 2

Solid of revolution

What is the general formula for the volume of the solid formed by rotating, around the x -axis, the graph of $y = f(x)$ between $x = a$ and $x = b$? (Assume $f(x) \geq 0$.)

A. $\int_{a^2}^{b^2} \pi(f(x))^2 dx$

B. $\int_a^b \pi f(x) dx$

C. $\int_a^b \pi(f(x))^2 dx$

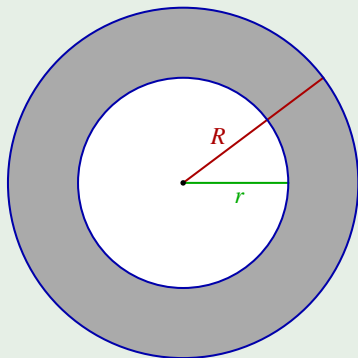
D. $\int_{a^2}^{b^2} \pi f(x) dx$

E. none of the above

Clicker Question 3

Another formula from geometry

What is the area of an annulus with outer radius R and inner radius r ?



- A. $\pi(R - r)^2$
- B. $\frac{1}{2}\pi Rr$
- C. $\frac{1}{2}\pi(R + r)$
- D. $\pi(R^2 - r^2)$
- E. none of the above