CALCULUS: Graphical, Numerical, Algebraic by Finney, Demana, Watts and Kennedy Chapter 7: Application of Definite Integrals 7.2: Area

What you'll Learn About

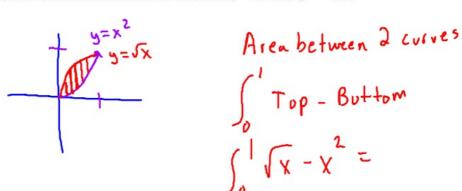
- · Finding the area between 2 curves
 - A) Find the area between the curve $y = \sqrt{x}$ and the x-axis from [0, 1].

$$\int_{0}^{1} x^{1/2} = \frac{2}{3} x^{3/2} \Big|_{0}^{1} = \frac{2}{3}$$

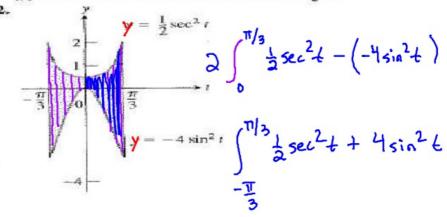
B) Find the area between the curve $y = x^2$ and the x-axis from [0, 1].

$$\int_{0}^{1} \chi^{2} = \frac{1}{3} \chi^{3} \Big|_{0}^{1} = \frac{1}{3}$$

C) Find the area between the curves $y = x^2$ and $y = \sqrt{x}$

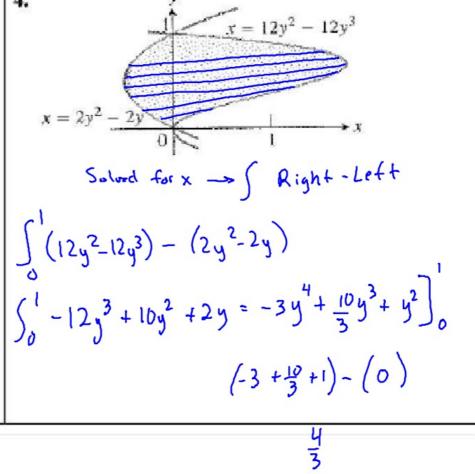


Using your calculator find the area of the shaded region.



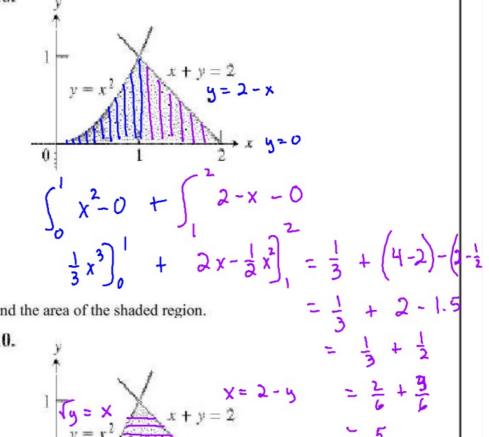
Find the area of the shaded region.

4.



Find the area of the shaded region.

10.



Find the area of the shaded region.

10.

