

HW 4 Due : Monday, Sep. 16

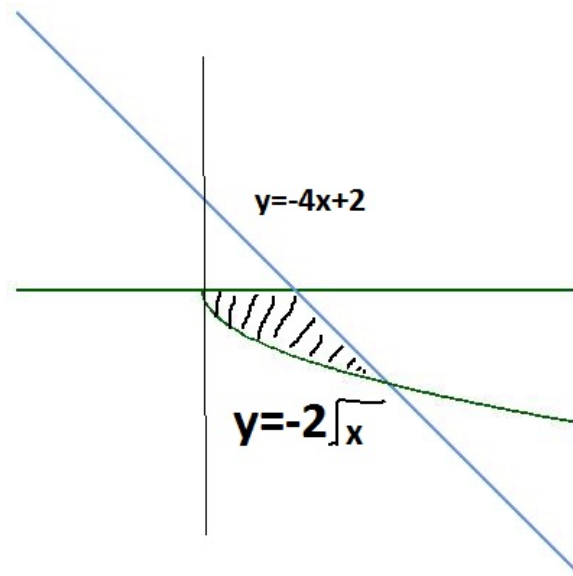


FIGURE 1. Graph for problem 1

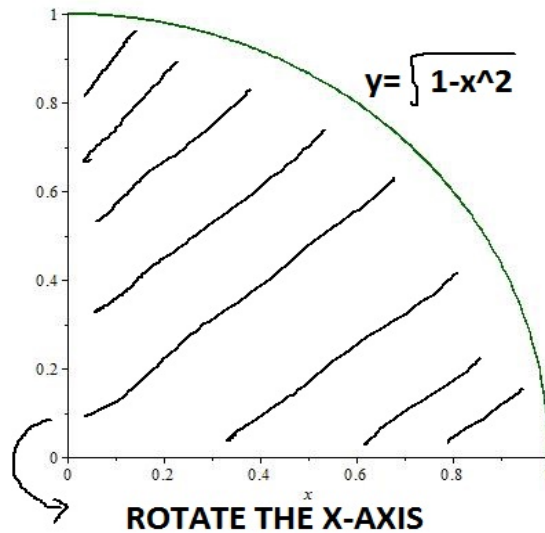


FIGURE 2. Graph for problem 2

- 1 Find the area of the region bounded by $y = -2\sqrt{x}$, $y = -4x + 2$ and x -axis.
- 2 Find the volume of the solids obtained by rotating the region enclosed by $y = \sqrt{1 - x^2}$, $0 \leq x \leq 1$, $y = 0$ about the x -axis.

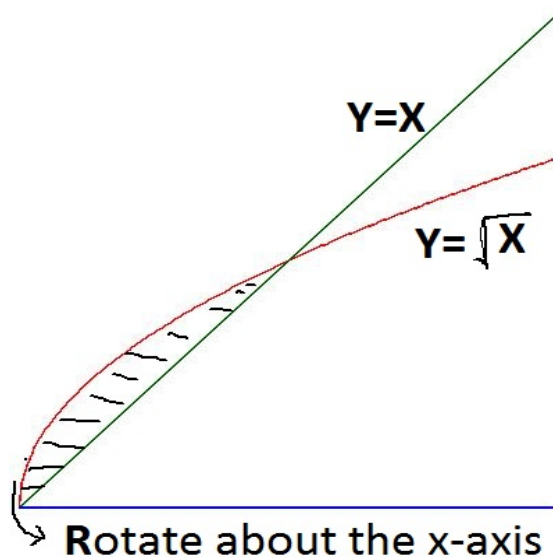


FIGURE 3. Graph for problem 3

- 3 Find the volume of the solids obtained by rotating the region enclosed by $y = x$ and $y = \sqrt{x}$ about the x -axis.

Extra Practice Problems (These are extra problems for you to practice and you can check the answers at the back of the book)

Sec 6.3 Problem 35, 37, 41, 43