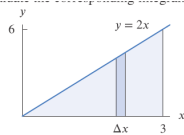# Reading Questions 13

Section 8.1 : Example 1

1. The ratio of the bases of two similar triangles is equal to the ratio of their heights.

2. Right rectangles were used to approximate the isosceles triangle.

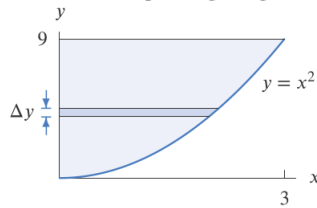3. Why are the bounds on the integral from 0 to 5 instead of 0 to 10?

Section 8.1 Areas and Volumes (Part 1)

2D - Areas horizontal slices

P 1. Write a Riemann sum approximating the area of the region in the figure below using vertical strips. Write a Riemann sum approximating the area of the region in the figure below using horizontal strips. Then compute the exact value of the area of the shaded region.

P 2. Write a Riemann sum approximating the area of the region in the figure below using horizontal strips. Then compute the exact value of the area of the shaded region.
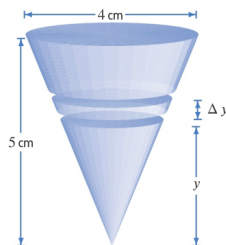

3D - Volumes using Cross Sections

P 3. Use horizontal slicing to find the volume of the figure below.

P 4. Use horizontal slicing to find the volume of the figure below.