# 6.2: Regions Between Curves

**Learning Objectives.**    Upon successful completion of Section 6.2, you will be able to. . .

- Answer conceptual questions about finding areas between curves.

- Find the area of a region using geometry.

- Find the area of a region (either by integrating with respect to $x$ or by integrating with respect to $y$) when the figure of the region is provided.

- Set up the area of a region in two ways: (1) in terms of one or more integrals with respect to $x$ and (2) in terms of one or more integrals with respect to $y$.

- Sketch a given region and find its area.

**Title**