

8.1 (Slice and Conquer) Area

1. Sketch a graph of the functions to find the enclosed region
2. Sketch a picture of a Riemann slice on your graph.
3. Base of the rectangle? Circle: Δx or Δy
4. Which function is larger in that variable (top for x , right for y)?
5. What is the height of the rectangle (top-bottom or right-left)?
6. What is the Riemann sum approximation? $\sum \text{height} \cdot \text{base} = \sum$
7. What are the limits of the integral a and b (algebra finds the intersection points)?

8. Write the integral and solve?

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