## 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: $\Delta x$ or $\Delta y$
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? $\sum$ height $\cdot$ 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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