

## Quiz 2

Name: \_\_\_\_\_ Row: \_\_\_\_\_

**1.** Find the volume of the solid obtained by rotating the region in the diagram around the  $x$ -axis.

**2.** Find the volume of the solid obtained by rotating the region in the diagram around the  $y$ -axis.

**3.** A cable 80 feet long and weighing 4 lb. per foot is hanging from the top of a 100 foot building. Find the work done in hauling the cable to the top of the building. Show all your calculations.