

(6.2) Volume by Disks & Washers

Full Name: _____

1. Sketch the region enclosed by the graphs of the given equations. Then, use a definite integral to find the exact value of the volume of revolution obtained by rotating the region about the given axis of revolution.

(a) $\frac{39366}{5}\pi$

(b) $\frac{40581}{5}\pi$

(c) $\frac{1048}{105}\pi$

(d) $\pi \ln 3$

(e) ≈ 132.85

(f) $2\pi(\ln 2)^2$