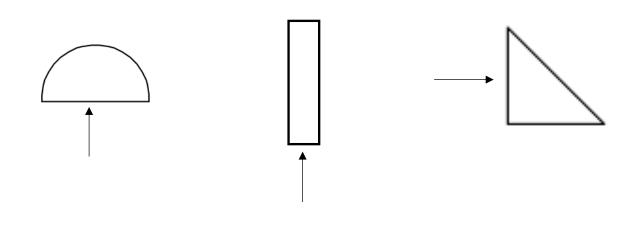
11.2 Volumes of Rotational Solids

Plane –

Plane region –



(1) The Disc Method –

Radius of Rotation –

Revolution about the *x*-axis:

Revolution about the *y***-axis:**

Find the volume of the solid generated when the region enclosed by $y = -x^2 + 4$ and y = 0 is revolved about the *x*-axis.

Find the volume of the rotational solid generated by rotating the area in the first quadrant bounded by $y = x^2$, the y-axis, and the line y = 9 around the y-axis.