### 8.11 Washer Method: Revolve Around the $\boldsymbol{x}$ - or $\boldsymbol{y}$-axis

Calculus
Name:
For each problem, sketch the area bounded by the equations and revolve it around the axis indicated. Find the volume of the solid formed by this revolution. A calculator is allowed, so round to three decimal places.

1. $y=4-x^{2}$ and $y=2-x$. Revolve around the $x$ - $2 . x=3-y^{2}, x=2$. Revolve around the $y$-axis. axis.
2. $y=(x-3)^{2}-5$ and $y=-1$. Revolve around the $x$-axis.
3. Same region as \#3, but revolve around the $y$-axis.
