

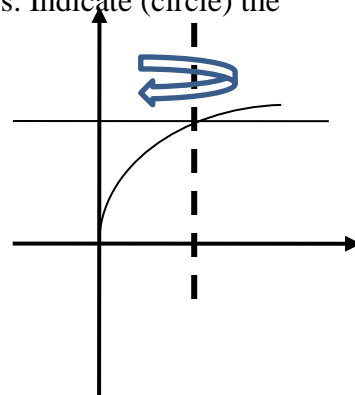
Math 141
Quiz 3
September 18, 2015

1. **SET UP** the integral to find the volume of the solid generated by rotating the region bounded by the graphs of $y = \sqrt{x}$, $x = 0$, and $y = 2$ about the *line* $x = 4$ using vertical rectangles. Indicate (circle) the method used.

DISK

WASHER

SHELL



2. **SET UP** the integral to find the volume of the solid with semi-circular cross-sections taken perpendicular to the x -axis whose base is bounded by the graphs of $y = x^2$ and $y = 2x$.

