1. Consider the region bounded between y = x and $y = x^4$. Use the cylindrical shell method to find the volume when this region is rotated around the y-axis.

2. Do the same problem as above, but use the washer method.

3.	Consider	the region	between	y = -(x -	(x-1)(x-3)	and $y =$	$\frac{1}{2}(x-1)$	rotated	around	the y -axis
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a. What about this problem makes it difficult to use the washer method?

b. Use the washer method to find the volume.