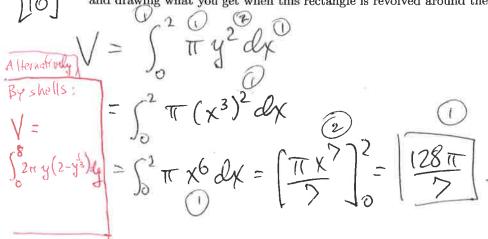
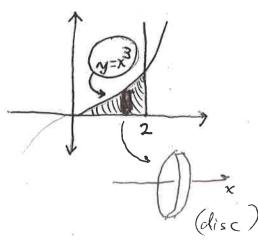
Don	
Name:	Row:

1. Find the volume obtained by revolving the shaded region around the x-axis.

(For one point extra credit, illustrate the method you used by drawing a thin rectangle within the region

and drawing what you get when this rectangle is revolved around the x-axis.)

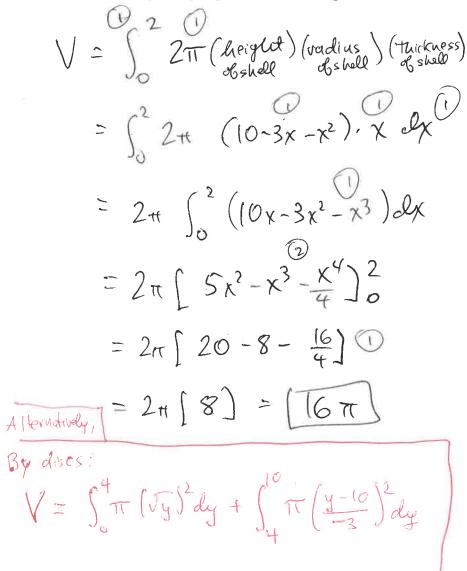


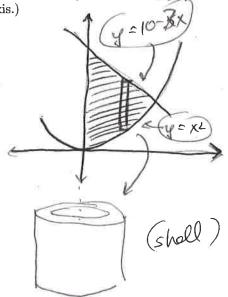


2. The region in the diagram lies between the graphs of y = 10 - 3x,  $y = x^2$ , and x = 0. Find the volume of the solid obtained by revolving the region around the y-axis.

(For one point extra credit, illustrate the method you used by drawing a thin rectangle within the region

and drawing what you get when this rectangle is revolved around the y-axis.)





Point of intersection:

10-3x = x<sup>2</sup>

x<sup>2</sup>+3x-10=0

(x+5)(x-2)=0

x=-5 or x=2.

The point of intersection is to the right of the

y-axis, so x=2.