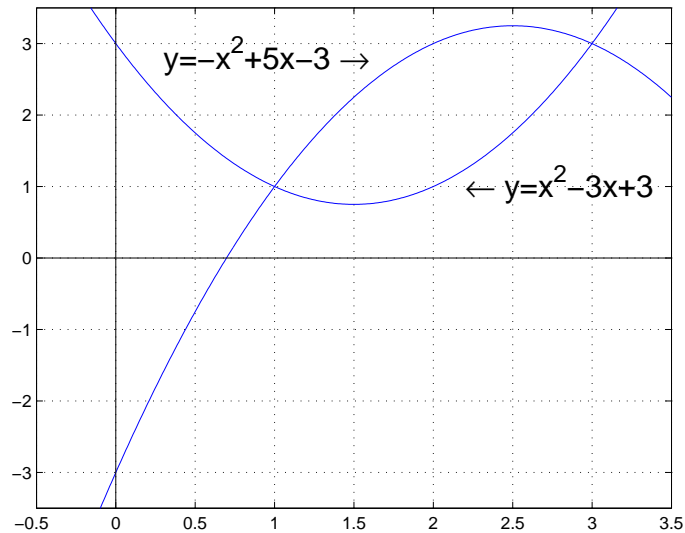


NAME AND SECTION: \_\_\_\_\_

INSTRUCTOR'S NAME: \_\_\_\_\_

## QUIZ 6

1. Compute the volume of the solid obtained by rotating around the  $x$ -axis the region enclosed in between the curves  $y = -x^2 + 5x - 3$  and  $y = x^2 - 3x + 3$ , as shown in the graph below, using the washer method.



- (a) Shade the region and compute the bounds of integration.
- (b) Set up and write down the integral for the volume of the solid.
- (c) Compute the above integral (if you don't have enough time, explain what you would do to compute it).