Handout 2

Volumes by Slicing and Shells



Handout 2



MATH 172 Lab: Sections 7 and 8

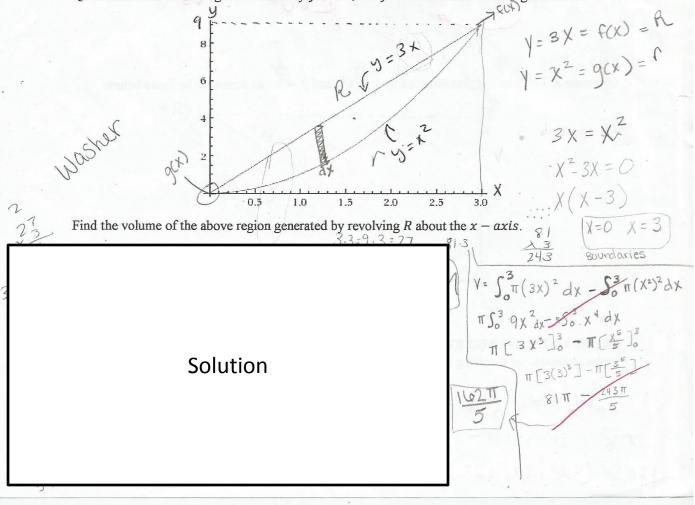
## Lab Instructor (TA): Mohammed Kaabar

Student's Name: Aluse Bailer Solution Student's ID:-

Note: This handout covers only the volumes by slicing and shells.

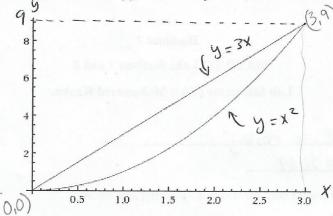
*Instruction:* Work in groups to solve the following mathematical problems, and I want from each group one person to volunteer as a representative to present the solution of (one problem)/(one part of problem) on our class board. <u>DON'T AFRAID TO MAKE MISTAKES</u> <u>BECAUSE WE LEARN FROM OUR MISTAKES!</u>

Question 1: Let R be a region bounded by  $y = x^2$ , and y = 3x as shown in the figure below:





Question 2: Let R be a region bounded by  $y = x^2$ , and y = 3x as shown in the figure below:



**SET UP ONLY (DO NOT EVALUATE)** an integral that represents the volume of the above. region generated by revolving R about y - axis.

