

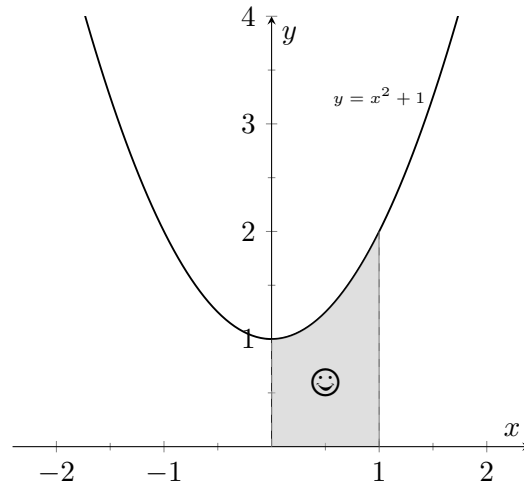
# Math 3B

# Quiz 3

Name: \_\_\_\_\_ Section Day and Time: \_\_\_\_\_

Complete the following problems, making sure to **SHOW ALL WORK**. If you're stuck on something, **CLEARLY EXPLAINING** what you do know or what you would do will get you partial credit!

1. Consider the region bound between the functions  $y = x^2 + 1$ ,  $y = 0$ ,  $x = 0$ , and  $x = 1$ , which has been marked below.



Find the volume of the solid obtained by rotating the given region about the  $y$ -axis. You may use any method you'd like, but make clear what you've done.