

232 Quiz 9**Name:** _____

December 2, 2011.

Name: _____**Section:** _____**Name:** _____

Work in groups of no more than three with NO NOTEBOOKS please.

1. Consider the trapezoid-shaped region between the graph of $f(x) = x + 2$ and the x -axis on the interval from $x = 0$ to $x = 1$. Set up (but do not solve) a definite integral that describes the volume of the solid obtained by revolving this region around the vertical line $x = 3$. You may use either discs/washers or shells, whichever you prefer. Include a clear, labeled picture of a representative disc/washer or shell.