

Math 2
February 6, 2008

Name: _____

Quiz 4

Show your work, and write clearly. No textbooks, notes, or calculators.

1. (3 points) Find the area of the region between $y = x + 3$, $y = 1$, $x = 0$, and $x = 4$, in any way you like.

2. (7 points) Find the area of the region between $y = x^2 - 3x$ and $y = -2$ as follows:
- (a) Find all points of intersection of these two graphs.
 - (b) Decide which curve's graph lies above the other.
 - (c) Write out the definite integral used to calculate area.
 - (d) Evaluate the definite integral to arrive at a numerical answer.