Math 132 - Quiz 1

Name _____

January 20, 2021

Score _____

Show all work to receive full credit. Supply explanations when necessary. This quiz is due January 27.

1. (4 points) Find the total combined area of the bounded regions between the graphs of $y = x^3 - x^2$ and y = 2x.

 $Turn \ over.$

2. (3 points) Find the area of the bounded region enclosed by the graphs of y = 3, $y = e^x$, and $y = e^{-x}$.

3. (3 points) Find the area of the 1st-quadrant region between the graphs of $x^2 = y^3$ and x = 3y.