Math 203 Spring 2019 Professor MG Classwork 18

Name: _____

Show all work and circle/box your final answer. All answers must be simplified unless stated otherwise.

- (1) Find the area between the following two curves:
 - (a) y = 0 and $y = 3(x^3 x)$ from x = -1 to x = 1(b) $y = x^2$ and $y = x^3$
 - (c) $y = e^{-x}$ and $y = e^{x}$ from x = -1 to x = 2
- (2) Set up but do not evaluate the integral(s) needed to find the area between the curves and the given x-values:
 - (a) $y = \frac{x-1}{4}$ and $y = \frac{1}{x-1}$ from x = 2 to x = 4(b) $y = 2x^2 + 10$ and y = 4x + 16 from x = -2 and x = 5