Math 203 Spring 2019 Professor MG Classwork 10

Name: _____

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

1. Find the derivatives of the following functions:

(a)
$$y = (x-1)(x^2 + x + 1)$$

(b) $y = \frac{2x+5}{2x-2}$
(c) $\frac{4x+12}{2x^3+1}$
(d) $f(x) = \frac{(2x+3)}{(4x+5)^7}$
(e) $f(x) = (x^2+1)\left(x+5+\frac{1}{x}\right)$
(f) $y = \frac{5x+1}{2\sqrt{x}}$