## Math 241 Worksheet 5 (two-sided)

Name: \_\_\_\_\_ Section (circle one): **3 4** 

**1.** Differentiate the following functions <u>using derivative rules</u>.

(a) 
$$f(x) = 10x^3 + 7 + \frac{1}{\sqrt[3]{x}} + 3\sec(x)$$

(b) 
$$y = x^3 \cos(x)$$

(c) 
$$r = \frac{\tan \theta}{5\theta + 4}$$

