Name		
NAME		

July 27, 2018

Instructions: Include all relevant work to get full credit. Write your solutions using proper notations. Encircle your final answers.

Quiz #15

1. Find the general antiderivative of the following functions:

a.
$$f(x) = 8x^3 - x + 3$$
 [2]

b.
$$f(\theta) = \sec^2(\theta) - \sec(\theta) \tan(\theta)$$
 [2]

c.
$$f(t) = t^2 (7\sqrt{t} - \frac{2}{t^3})$$
 [2]

2. Find
$$f(x)$$
 if $f'(x) = \frac{x+1}{\sqrt{x}}$ and $f(1) = 5$. [4]