Review Quiz

May, 2016

NAME: \_\_\_\_\_\_ (please print clearly) (Last, First)

1. Find the most general antiderivative of the following (a)  $3x^2 + 5x$ 

- (b)  $\frac{3}{5} + \sqrt{x} + 2\frac{1}{x}$
- 2. Find the following indefinite integrals. (a)  $\int \cos 3x \, dx$
- (b)  $\int 3\cos x + \frac{2}{x} dx$

(c) 
$$\int \frac{5-x^3}{x^2} dx$$

3. Evaluate the definite integral  $\int_{1}^{2} 2x + 6x^{2} + 3 dx$ . Show clearly the steps you use, not just the number.