## MATH 141: QUIZ 8 SECTIONS 4.8-5.2

## ANN CLIFTON UNIVERSITY OF SOUTH CAROLINA

Name:		
Namo:		
INGHIE.		

**No phone or calculator.** You must show all work to receive full credit. Be sure to make reasonable simplifications.

1. (5 points) Find the indefinite integral:

$$\int \left(\cos x + x^2 - 3x + \frac{2}{\sqrt{x}}\right) dx$$

Date: March 21, 2018.

- 2. **(5 points)** 
  - (a) Write the following sum in closed form (using sigma notation):

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16}$$

(b) Write the following in open form (without the sigma) and evaluate:

$$\sum_{k=1}^{3} (-1)^k k^2$$