MATT	205	Calan	lua T
<b>MATH</b>	<i>2</i> 05 –	Caicu	ius i

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Instructions: Though calculators can be used for all the questions, all problems require you to show your work. Any answer without proper justification will receive **ZERO** credit. Only **EXACT** answers will receive full credit unless otherwise noted.

1. Determine the **general** antiderivative of  $f(x) = 9x^5 + \sin(8x) - e^{3x}$ 

2. Determine  $\int (\sec^2 x + 11x^5 + 7) dx$ 

3. Determine the function whose slope at (x, y) is  $-5x^3 + 6x$  and passes through (-2, 7).