Directions: Carefully read each question below and answer to the best of your ability in the space provided. Your answer to problem # 2 should be written in a clear and concise manner. You **MUST** show your work to receive full credit!

Calculators are not allowed for the quiz.

- 1. (1 point) Find the derivative of $(x^3 + 1)e^x$.
 - A. $3x^2 + e^x$
 - B. $3xe^x$
 - C. $(x^3 + 3x^2 + 1)e^x$
 - D. $(3x^2 + 1)e^x$
 - E. None of the above
- 2. (2 points) Find the value of f'(-2) for the function $f(x) = 2x^3 x + 7$.

Solution: First, let's find a derivative of f(x) with respect to x, that is

$$f'(x) = 6x^2 - 1.$$

Now, we just need to evaluate f'(x) at x = -2, so

$$f'(-2) = 6(-2)^2 - 1 = 24 - 1 = 23$$
.

Name:

Question:	1	2	Total
Points:	1	2	3
Score:			

MA 113 Page 2 of 2