Quiz #5

Directions: Carefully read each question below and answer to the best of your ability in the space provided. You **MUST** show your work to receive full credit! Your answer to problem # 2 should be written in a clear and concise manner using a combination of complete sentences and symbolic expressions. An answer without explanation or that is poorly presented may not receive full credit.

1. (1 point) Find the derivative of $\sin(x^3 + x)$.

   A. $\cos(x^3 + x)$

   B. $\sin(3x^2 + 1)$

   C. $(3x^2 + 1)\cos(x^3 + x)$

   D. $(3x^2 + 1)\sin(x^3 + x)$

   E. $\cos(3x^2 + 1)$

2. (2 points) Find the n-th derivative of $\cos(x)$. Explain your work.

Name: _____

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