

Quiz #8

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

$$\lim_{x \rightarrow 0} \frac{x^2}{1 - \cos(x)}.$$

- A. 0
 - B. $\frac{1}{2}$
 - C. 1
 - D. 2
 - E. Does not exist.
2. (2 points) The sum of two positive numbers is 16. What is the smallest possible value of the sum of their squares?

Name: _____

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