Math 220 Section 6 Quiz 8

4 November 2015

Name: Answer Key

 The sum of two non-negative numbers is 16. What is the largest possible value of the sum of their squares.

$$5'(x) = 2x + 2(16-x)(-1)$$

= $4x \neq 32$

Interval method

$$\frac{x \mid 5(x)}{0 \mid 256}$$

largest possible value

 $\frac{8 \mid 128}{16 \mid 256}$
 $\frac{256}{256}$