

Name: _____

Quiz #5 (October 28th, 2008)

Let $P(q) = 1000q^2e^{-q^2/2}$.

1. Finish the formula for defining P(q) in Maple. $[> P := q \rightarrow$ _____

2. $P(q)$ has 3 critical points. Find them and circle the appropriate description.

(a) $q =$ _____ Relative Maximum / Relative Minimum / Neither

(b) $q =$ _____ Relative Maximum / Relative Minimum / Neither

(c) $q =$ _____ Relative Maximum / Relative Minimum / Neither

3. Suppose that P(q) represents Piggly Wiggly's the profit from selling q pounds of baloney. Then...

Piggly Wiggly's maximum possible (baloney) profit is \$ _____.

They should acheive this maximum profit by selling _____ lbs. of baloney.

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