## ${f Quiz}$ (Week 05-11-2017 - 09-11-2017) Math-101, Calculus I Prepared by Dr. Kareem Elgindy

Question 1. [Business] Suppose that the function

$$N(t) = \frac{250,000t^2}{(2t+1)^2}, \quad t > 0,$$

represents the quantity sold N of a product after t weeks on the market.

- a) Find N'(t).
- **b)** Find N''(t), then use it to calculate N''(52) and N''(208).
- c) Interpret the results obtained in Parts a) and b).