

Name: _____

Math 211 Quiz 3

Section: 322

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Sep 27, 2012

1. (10 pts) Find the derivative of $y = x^3 - e^x$ and the equation of the tangent line to the curve at $(0, -1)$.

2. (10 pts) The equation of motion of a particle is $s = t^2 - 3t$, where s is in meters and t is in seconds. Find

- a. the velocity and acceleration as functions of t ,
- b. the acceleration after 2 seconds, and
- c. the acceleration when the velocity is 0.