

Math 150A, Fall 2007, Section 18
Quiz 4

Name:

Show your work. No work, no credit.

1. Find the derivatives $\frac{dy}{dx}$ when

- $y = \sqrt{x^5} + \frac{2}{x^3}$

- $y = \frac{x^3 - 2x\sqrt{x}}{x}$

2. The height, measured in feet, of a ball thrown vertically is given by $s(t) = 64t - 16t^2 + \sqrt{2}$, where $t \geq 0$ is measured in seconds. When is the ball moving upward? What is its maximal height – that is the height when the ball is at rest?

3. Find the equation of the tangent line to the curve $y = \frac{2x}{x+1}$ at the point $(1, 1)$.

Pledged

Honor code: I have neither given nor received help on this quiz.