MATA32 – Winter 2010
Quiz 7

Name: _____

1. Suppose the position function of an object moving along a number line is given by $s = f(t) = 2t^3 - 7t + 1$, where t is in seconds and s is in meters.

(a) Find the average velocity over the interval $[2, 2.1]$.

(b) Find the velocity when $t = 2$.

2. Suppose that $y = f(x)$ and $\frac{dy}{dx} = 10$ when $x = 2$. Estimate the change in y if x changes from 2 to 2.2.