

Name: _____

Math 1441 Quiz 4

1. (10 pts) Find the **first** and **second** derivatives y' and y'' .

(a) $y = \frac{x^3}{6} - 3x^2 + 2^{32}$

(b) $y = \frac{1}{x} - \frac{1}{x^2}$

2. (10 pts) Find the derivative $\frac{dy}{dx}$.

(a) $y = \frac{x+1}{\sqrt{x}}$

(b) $y = -x^2 \sin x$