MTH 132 Quiz # 4	Spring 99–Sec. 20 Corso	Name: ____________________ __________________________	Please, be neat and show all your work; circle your answer.

Find the derivative of each of the following functions:

1. If $y = (1-2x)^5$, then $\frac{dy}{dx} =$ ____________________

pts: /2

2. If $y = \left(\frac{x}{5} + \frac{1}{5x}\right)^5$, then $\frac{dy}{dx} =$ ____________________

pts: /2

3. If $y = x^2 \sin^4(2x)$, then $\frac{dy}{dx} =$ ____________________

pts: /2

4. Use implicit differentiation to find $\frac{dy}{dx} =$ ____________________ if

$$x + \sin y = xy.$$

grade: /10

pts: /4