

MATH 211- Quiz 2 - Fall 2001- NAME:

1. Find the derivatives of the following:

(i) $f(x) = \sin(3 + x^3)$

(ii) $g(x) = \sqrt{x^4 - 9x^3 + 7}$

(iii) $f(x) = \frac{1+x^2}{1-x^2}$

(iv) $h(x) = (\tan x + e^{x^2})^4$

2. Find dy/dx by implicit differentiation,

$$x^2 + y^2 - xy = 0.$$