

Name:

Sec. 3.5 - Implicit Differentiation

Math 251

1. Find  $\frac{dy}{dx}$  by implicit differentiation

(a)  $x^2 - 4xy + y^2 = 4$

(b)  $\cos(xy) = 1 + \sin(y)$

(c)  $e^{\frac{x}{y}} = x - y$

(d)  $\tan^{-1}(x^2)$