Implicit Differentiation

- 1. Find $\frac{dy}{dx}$ for the following implicity defined functions:
 - (a) $x^4 + y^4 = 3x^3 + 2$
 - (b) $xy = x^2 + 3y^2$
 - (c) $\cos(x^2 + y) = \frac{5}{x}$
- 2. Find the equation of the tangent line to $x^2 + xy + y^2 = 3$ at the point (1,1).