## **Implicit Differentiation Practice**

- 1. Implicitly take the derivative of the following functions. Solve for y' if feasible.
  - (a)  $x^2 + y^2 = 16$
  - (b)  $x^2y + y^3 = x$

## 2. Consider $xy^2 = 1$ .

- (a) Implicitly find the derivative of y.
- (b) What does a plot of this "function" look like?
- (c) What is the slope of the curve at the point (1, -1)?
- (d) What is the slope of the curve at the point (1, 1)?