Name: _____   Date: _____

Learning Goal 3.3	Using more derivative rules.

Explicit Functions/Relations   **vs**   **Implicit Functions/Relations**

Example Differentiate $x^2 + y^2 = 25$, then determine the slope of the tangent line at the point $(3, -4)$,
   a. Using an explicit function

   b. Using an implicit function

Example Differentiate $2y^5 + x^2y^2 = x$.

Example Find dy/dx if $y = x^{x^2+5x}$.

Example Find dy/dx if $y = (x^2 + 1)(3x + 2)^5$.