Part I (due at the beginning of class Thursday, October 30)

See what you can do this problem: find the equation of the tangent line to $7y^2 + x^3y + x = 4$ at the point (4,0).

Part II: Problems (due at the beginning of class Tuesday, October 28)

- 1. Create and explain examples of three functions you can't differentiate without the Chain Rule, even after algebraic simplification.
- 2. Suppose $u(x) = \sqrt{3x^2 + 1}$ and $f(u) = \frac{u^2 + 3u^5}{1 u}$. Use the Chain Rule to find $\frac{d}{dx}(f(u(x)))$ without first finding the formula for f(u(x)).