Section 3.5: Implicit Differentiation

(1) In this section, we learn about implicit differentiation which allows us to find the derivative $\frac{dy}{dx}$ of a function y = f(x) without having to solve for y. It even works when y is not a "function" of x. Explain how implicit differentiation is related to the chain rule.

(2) When doing implicit differentiation, when do we get a $\frac{dy}{dx}$ term?

(3) When we solve for $\frac{dy}{dx}$ at a certain point, what does that value tell us?

