Exercises:

1. **Find the derivative using implicit differentiation:**
   (a) $y = \sin(x)$
   (b) $y = \ln(2x^5)$
   (c) $y = \dfrac{x+1}{\sqrt{x^2-9}}$
2. **Find the derivative using implicit differentiation:**
   (a) $6 = \sqrt[5]{(x+2y)^2}$
   (b) $y + 2 = \dfrac{\tan(x)}{xy}$
   (c) $1 = \sin(xy) + (y - x^{-2})^3$