$x^3 + \sin y + \cos(2x + 5y) = 1$

We differentiate both sides of the equation like a composite function by x:

$3\text{x}^2 \sin \text{y} + \text{x}^3 \cos \text{y}\, y' - \sin(2x + 5y)(2 + 5y') = 0$

$3\text{x}^2 \sin \text{y} + \text{x}^3 \cos \text{y}\, y' - 2 \sin(2x + 5y) - 5y' \sin(2x + 5y) = 0$

$y'(x^3 \cos y - 5 \sin(2x + 5y)) = 2 \sin(2x + 5y) - \text{x}^2 \sin \text{y}$

$y' = \dfrac{2 \sin(2x + 5y) - \text{x}^2 \sin \text{y}}{x^3 \cos y - 5 \sin(2x + 5y)}$