

Implicit Differentiation

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1. Find the derivative of $\cos(x^2) = xe^y$
2. Find the derivative of $x^2 + y^2 = 3x$
3. Find the derivative of $\sec(xy) + e^y = 3x - 4$

4. Find the derivative of $5y^2 + \sin(y) = x^2$

5. Find the derivative of $\sin(x + y) = y^2 \cos(x)$

6. Find the derivative of $\csc(y) + \ln(x) = x^{-2}$