

## Implicit Differentiation

1. Differentiate both sides of the equation with respect to  $x$ .
2. Apply the rules of differentiation. If an expression involves  $y$  then include  $\frac{dy}{dx}$
3. Isolate all the  $\frac{dy}{dx}$  terms on one side of the equation.
4. Factor out  $\frac{dy}{dx}$
5. Solve for  $\frac{dy}{dx}$  by dividing.

**Example:** Find  $\frac{dy}{dx}$  of  $2x^2 - 3y^3 = 5$

$$\frac{d}{dx}[2x^2 - 3y^3] = \frac{d}{dx}[5]$$

$$4x - 9y^2 \frac{dy}{dx} = 0$$

$$-9y^2 \frac{dy}{dx} = -4x$$

$$\frac{-9y^2 \frac{dy}{dx}}{-9y^2} = \frac{-4x}{-9y^2}$$

$$\frac{dy}{dx} = \frac{4x}{9y^2}$$

# Master Math Mentor Calculus Answers Implicit Differentiation

**Katrin Zwirgmaier**



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