Math 141 - Calculus
Section 3.8 Video Workshee

OpenStax

Name

Implicit Differentiation

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Ex.
$$x^3 - xy + y^3 = 1$$

Try It.
$$x^2y + xy^2 = 6$$

Power Rule for Rational Powers

$$x^2 + \sqrt{3}xy + 2y^2 = 5 \quad \left(\sqrt{3}, 2\right)$$

Try It: $2xy + \pi \sin y = 2\pi$