

Implicit Differentiation Practice

1. Find the equation of the tangent line to the curve

$$x^2 + xy + y^2 = 3.$$

at $(1, 1)$.

2. Find the equation of the tangent line to the curve

$$x^2 + 2xy - y^2 + x = 2.$$

at $(1, 2)$.

3. Find the equation of the tangent line to the curve

$$x^{2/3} + y^{2/3} = 4.$$

at $(-3\sqrt{3}, 1)$.