

Implicit Differentiation Practice

Name:

Find $\frac{dy}{dx}$ using implicit differentiation.

1) $y^3 + y^2 - 5y - x^2 = -4$

2) $x^2 + 2xy + y^2 = 4$

$$3) \ 4x^2y^2 + x = y^4$$

$$4) \ x^3 - 7x^2y^3 + 4y^2 = -16$$