

Calculus AB

2-5

Implicit Differentiation

Find $\frac{dy}{dx}$.

Explicit Differentiation -

$$3x + 2y = 7$$

Implicit Differentiation-

$$3x + 2y = 7$$

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

2) $x^2 - y^2 = 25$

6) $x^2y + y^2x = -2$

Find $\frac{dy}{dx}$ by implicit differentiation and evaluate the derivative at the indicated point.

22) $x^2 - y^3 = 0, \quad (1, 1)$

Assignment:

Pg. 146

1-15 odd,

21-27 even