

1. $8x^2 + y^2 = 10$

$$16x + 2y y' = 10$$

$$y' = \frac{10 - 16x}{2y}$$

$$y' = \frac{5 - 8x}{y}$$

2. $4x^3 - 2y^3 = x$

$$12x^2 - 6y^2 y' = 1$$

$$y' = \frac{1 - 12x^2}{-6y^2}$$

3. $2x^3 + x^2 y + y^3 = 1$

$$6x^2 + \underline{x^2 y'} + y(2x) + \underline{3y^2 y'} = 0$$

$$y'(x^2 + 3y^2) = -6x^2 + 2xy$$

$$y' = \frac{-6x^2 + 2xy}{x^2 + 3y^2}$$

