1

$\frac{dy}{dx}$ $x^4 + 2x^2y^2 - 4x^2 + y^4 - 4y^3 =$

$4x^3 + 2(2xy + 2yx^2) - 4(2xy + x^2) - 8x + 4y^3 - 12y^2$

$= 0$

Isolate

$$-\frac{x(x^2 + y^2 - 2y - 2)}{x^2y - x^2 + y^3 - 3y^2}$$

2

$\frac{dy}{dx}$ $\sin(x+y) = y^2$

$\cos(x+y)\left(1 + \frac{d}{dx}\right) = 2y$

Isolate

$$-\frac{\cos(x+y)}{\cos(x+y) - 2y}$$

$\frac{\partial}{\partial x}\ y^4 = y^2 - x^2$

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

Isolate $\dfrac{x}{y(2y^2-1)}$