

Differentiate, with respect to x

$$y = \sqrt[3]{x}$$

$$y = \frac{5x^2}{2x - 1}$$

$$y = (3x + 1)^7$$

$$y = 2x(x^2 + 1)^3$$

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

$$y = \sin 3x$$

$$y = \tan x - \cos^2 x$$

$$y = \ln(x^2 - 4x + 4)$$

$$y = xe^{2x}$$

$$2x^2 + y^2 - 2y - 9 = 0$$

$$y = \frac{2x}{3x + 1}$$

$$y = x \sin 2x$$

$$2x^2 - 3y^3 = 9$$

$$y = \sin (\cos x)$$

$$y = e^{2x+1}$$

$$y = \log_3\left(\frac{1}{x}\right)$$

$$y = \sqrt{x^2 + 2x - 3}$$

$$y = \frac{x \sin x}{\ln x}$$

$$x^2 - 3xy + y^2 = 0$$

$$\frac{x+y}{x-y} = 2$$

$$y = 2^{6x-1}$$

$$y = \left(\frac{2x-1}{x+2}\right)^4$$