

Answer on Question #47285 – Math – Calculus

y=power of x is 2 +2x+1/x+1 differentiate it.

Solution

The function is

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

And its derivative is

$$\frac{dy}{dx} = \frac{d}{dx} \left(x^2 + 2x + \frac{1}{x} + 1 \right) = 2x + 2 - \frac{1}{x^2}$$

Answer:

$$\frac{dy}{dx} = 2x + 2 - \frac{1}{x^2}$$