

$$f(0,0) + \left(x f_x(0,0) + y f_y(0,0) \right) + \frac{1}{2!} \left(x^2 f_{xx}(0,0) + 2xy f_{xy}(0,0) + y^2 f_{yy}(0,0) \right)$$

$$+ \frac{1}{3!} \left(x \partial_x + y \partial_y \right)^3 f \Big|_{(x,y)}$$

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$$= 1 + \frac{1}{2!} \left(-x^2 - y^2 \right) + \left(\frac{1}{3!} \left(|x| + |y| \right) \right)^3$$