Please PRINT your name	
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No calculators, cell phones, computers, notes, etc.

Circle your answer. Make your work correct, complete and coherent.

The quiz is worth 5 points. The solutions will be posted on my website later today.

Quiz 4, September 9, 2020

Let
$$f(x,y) = \sqrt{x^2 + y^2}$$
. Find $\frac{\partial f}{\partial x}$ and $\frac{\partial f}{\partial y}$.

To calculate $\frac{\partial f}{\partial x}$, pretend y is constant and take the derivative with respect to x:

$$\frac{\partial f}{\partial x} = \frac{2x}{2\sqrt{x^2 + y^2}}.$$

To calculate $\frac{\partial f}{\partial y}$, pretend x is constant and take the derivative with respect to y:

$$\frac{\partial f}{\partial y} = \frac{2y}{2\sqrt{x^2 + y^2}}.$$