Math 2415 Concept Quiz Questions on 14.3

- 1. Write down the limit definition of the partial derivative of z = f(x, y) with respect to y at the point (x_0, y_0) .
- 2. Make a sketch that illustrates how to interpret $\frac{\partial f}{\partial x}(x_0, y_0)$ as a slope.
- 3. Which of the following partial derivatives are always equal: f_x , f_y , f_{xx} , f_{xy} , f_{yx} , and f_{yy} ?