

14.3, number 1: Find  $\frac{\partial f}{\partial x}$  and  $\frac{\partial f}{\partial y}$  for  $f(x, y) = 2x^2 - 3y - 4$ .

**Answer:** We compute  $\frac{\partial f}{\partial x} = 4x$  and  $\frac{\partial f}{\partial y} = -3$ .