Hallar $\frac{\partial^2 f}{\partial x^2}, \frac{\partial^2 f}{\partial y^2}, \frac{\partial^2 f}{\partial y \partial x}$ para $f(x,y) = x^2 y - 4x + 3 seny$

$\frac{\partial f}{\partial x}$

$$f(x,y) = x^2 y - 4x + 3 \sin y$$

$$\frac{\partial f}{\partial x} = 2xy - 4$$

$\frac{\partial^2 f}{\partial x^2}$

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

$\frac{\partial f}{\partial y}$

$$\frac{\partial f}{\partial y} = x^2 + 3 \cos y$$

$\frac{\partial^2 f}{\partial y}$

$$\frac{\partial^2 f}{\partial y^2} = -3 \sin y$$

$\frac{\partial^2 f}{\partial y \partial x}$

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

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

$$\frac{\partial^2 f}{\partial y^2} = -3 \sin y$$

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