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

$(x(r,\theta),\ y(r,\theta))$

$$\frac{\partial V}{\partial x} = \cos\theta\,\frac{\partial V}{\partial r} - \sin\theta\,\frac{1}{r}\frac{\partial V}{\partial \theta}$$