Johannes Byle

13.3

$$T = \frac{1}{2}m(\dot{x}^2 + \dot{y}^2)$$

$$H = \frac{1}{2}m(\dot{x}^2 + \dot{y}^2) + U(x, y)$$

Since both the potential energy and the kinetic energy are dependent on x and y neither are ignorable.