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61 Figure 4-1 “ A simple pendulum of mass m and length l . Solution. In Cartesian coordinates the kinetic and potential energies, and the Lagrangian are $T = \frac{1}{2} m \dot{x}^2 + \frac{1}{2} m \dot{y}^2$ $U = mgy$ $L = T - U = \frac{1}{2} m \dot{x}^2 + \frac{1}{2} m \dot{y}^2 - mgy$. (4.20) We can now transform the coordinates with the following relations

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