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Solution. In Cartesian Coordinates The Kinetic And Potential Energies, And The  
Lagrangian Are  $T = \frac{1}{2} M \dot{x}^2 + \frac{1}{2} M \dot{y}^2$   $U = mgy$   $L = T - U = \frac{1}{2} M \dot{x}^2 + \frac{1}{2} M \dot{y}^2 - mgy$ .  
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