

**HW 8 (Due June 1):** (20 points) Two blocks each of mass  $m$  kg are joined by a spring with spring constant  $k$  N/m. The blocks are initially at rest on a frictionless surface with the spring at its natural length of  $L$  meters. If a constant force of magnitude  $F$  newtons is applied to one of the blocks, determine the position of each block as a function of time.