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Solution: Writing down the kinetic and potential energy yields:  $T = \frac{1}{2} m \dot{x}^2$ ,  $U = \frac{1}{2} kx^2 + mgh$ .  $U = \frac{1}{2} k l^2 \sin^2 \theta + mgl(1 - \cos \theta)$  Here the spring deflects a distance  $l \sin \theta$ , and the mass drops a distance  $l(1 - \cos \theta)$ . Adding up the total energy and taking its time derivative yields:  $\frac{d}{dt} (T + U) = 0$

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