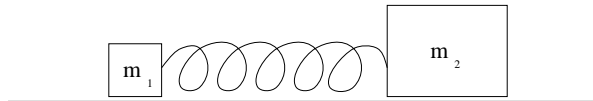


Due: 4 November

You should be able to do Marion & Thornton 3-1 and 3-3 in your sleep. Do them for practice if you need it, but do not turn them in.

1. (a) Marion & Thornton 3-4.
(b) Sketch $U(t)$ and $T(t)$ vs. t on the same plot.
(c) Sketch $U(x)$ and $T(x)$ vs. x on the same plot.
2. Marion & Thornton 3-5.
3. (a) Marion & Thornton 3-6.
(b) What is the effective mass of the combination? (What single mass attached rigidly to a wall by a spring of the same force constant would have the same frequency of oscillation?)



4. Marion & Thornton 3-7.
5. Marion & Thornton 3-9.