

Homework Assignment #32

(due Nov. 30, 2022, at the beginning of class)

1. Griffiths 7.1
2. Griffiths 7.7

Hints:

- For (c) you will need to get a differential equation for $v_x(t)$. You get this DE by using $\mathbf{F}_{\text{net}} = m\mathbf{a} = m\frac{d\mathbf{v}}{dt}$
- For (d) use $P = \frac{dW}{dt} = I^2R$ and use your results of (a) and (c) and then use $W = \int \left(\frac{dW}{dt}\right) dt$

3. Griffiths 7.8