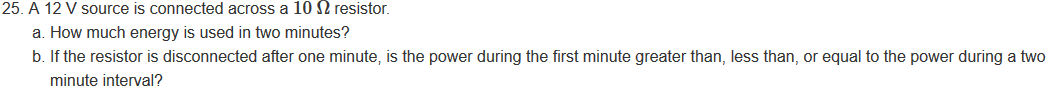
**EET/CPE 1140 - Homework # 4**

**Chapter 4**



\*100\*10-3

8.64kJ=360\*24



a)

P=IV

V=IR

Pt

P = 14.4 W

watt hours

480\*

b)

The problem implies that the resistor is connected for 1 minute.

watt hours

240\*

240\* in the one-minute case

240\*10-3 < 480\*10-3

Therefore, lesser energy





28.8kWh

But 60% might be extraneous information because 60% is the AC to DC conversion cost it is still consuming 2 watts per hour from the power grid

Work = 2\*24

From the power grid