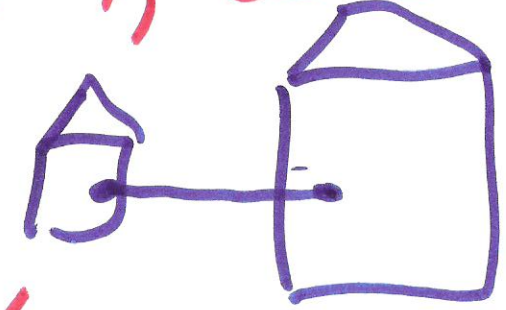
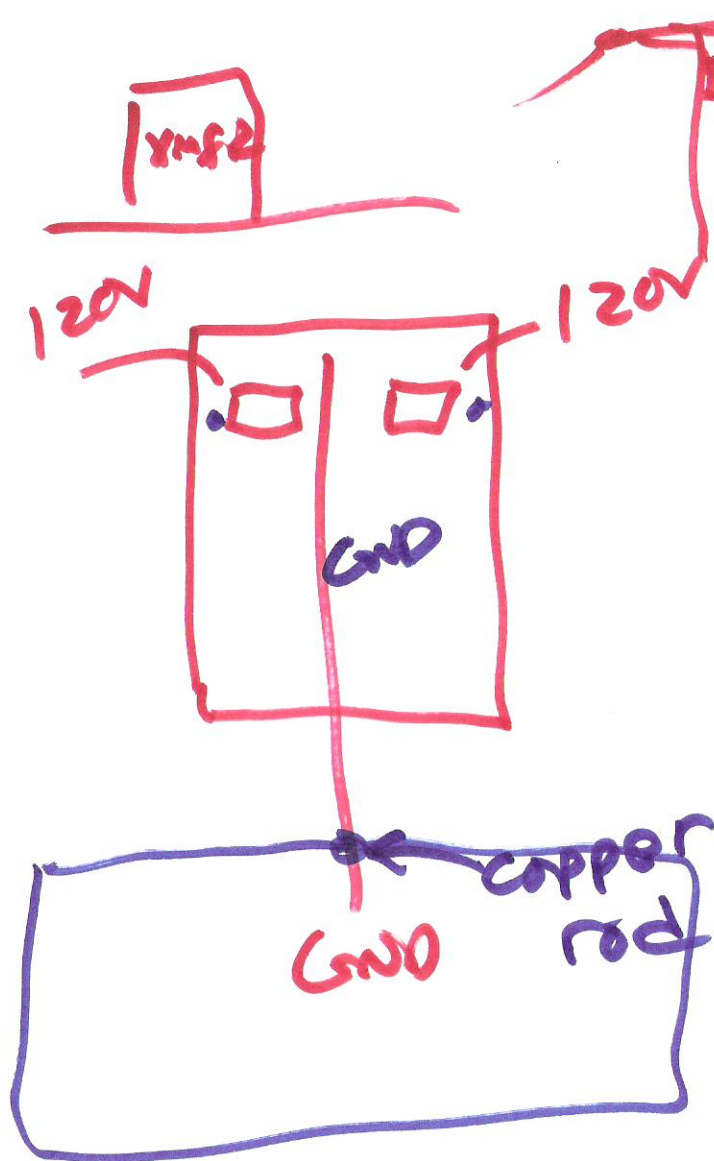


ECE 5472 Power Electronics

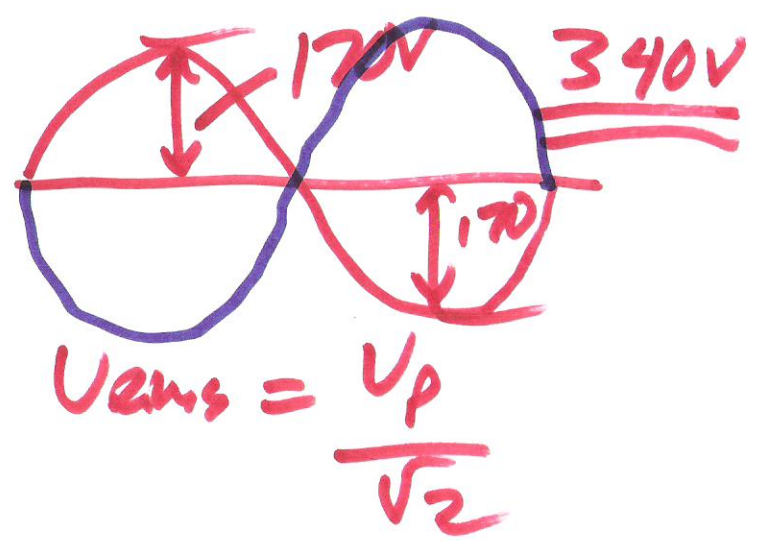
Lecture 4

Sept. 1, 2010

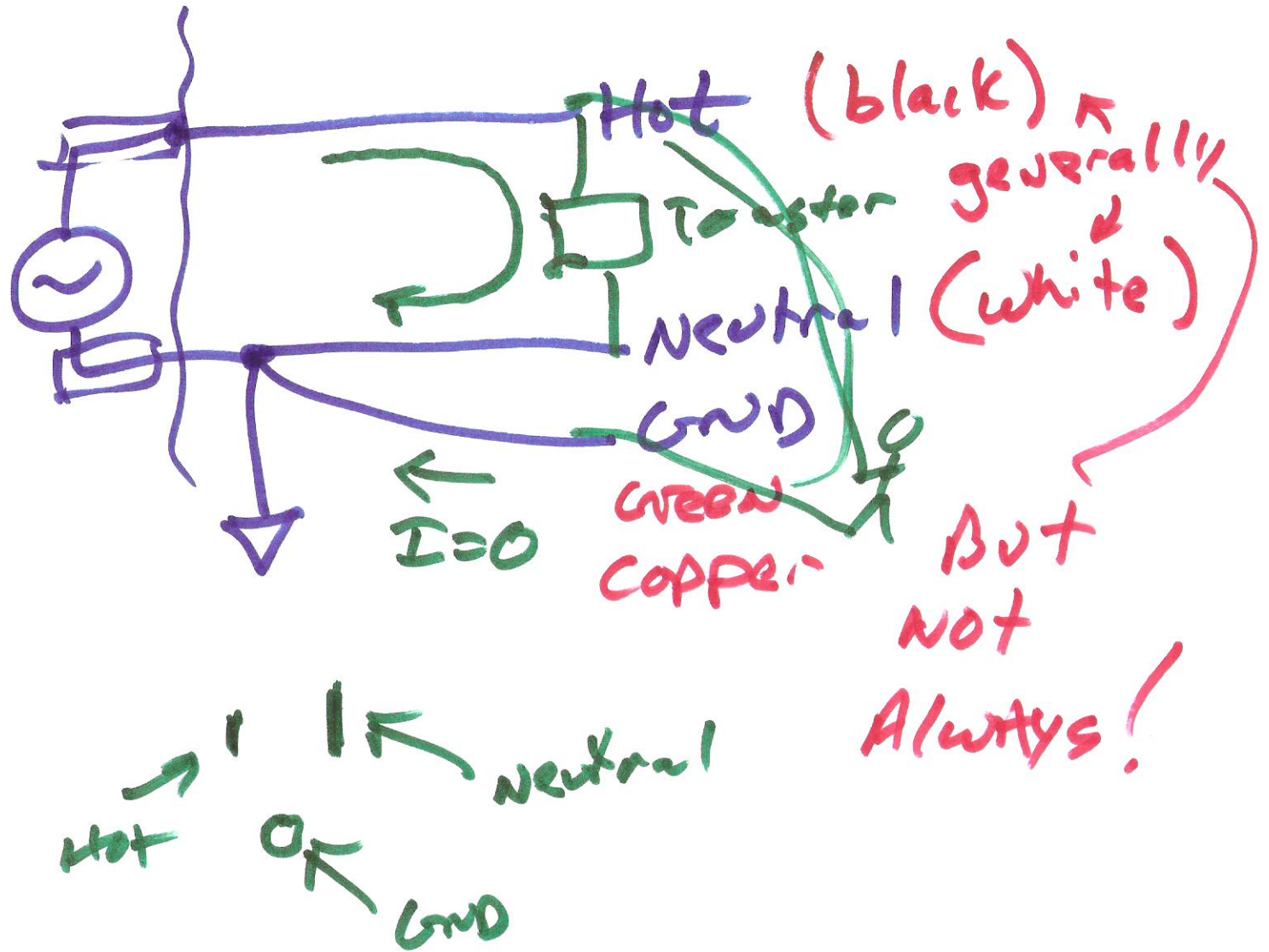


110V
115V
120V ± 3

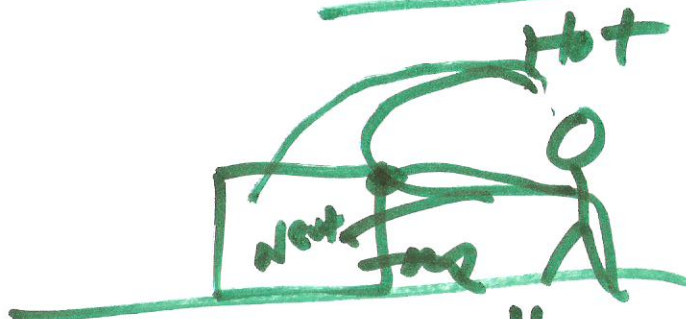
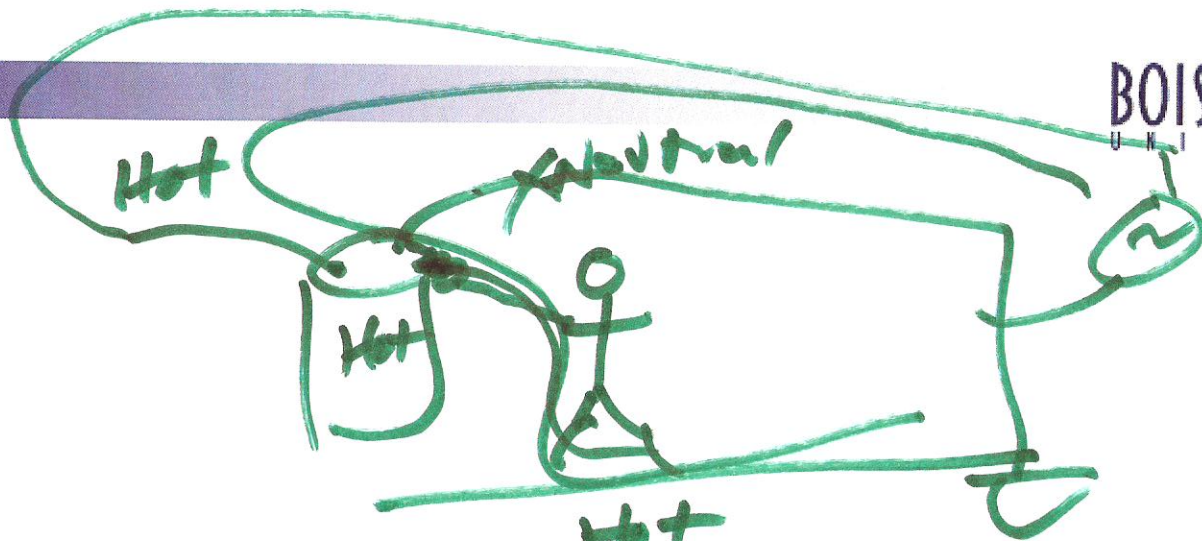
Hi-pot



11)

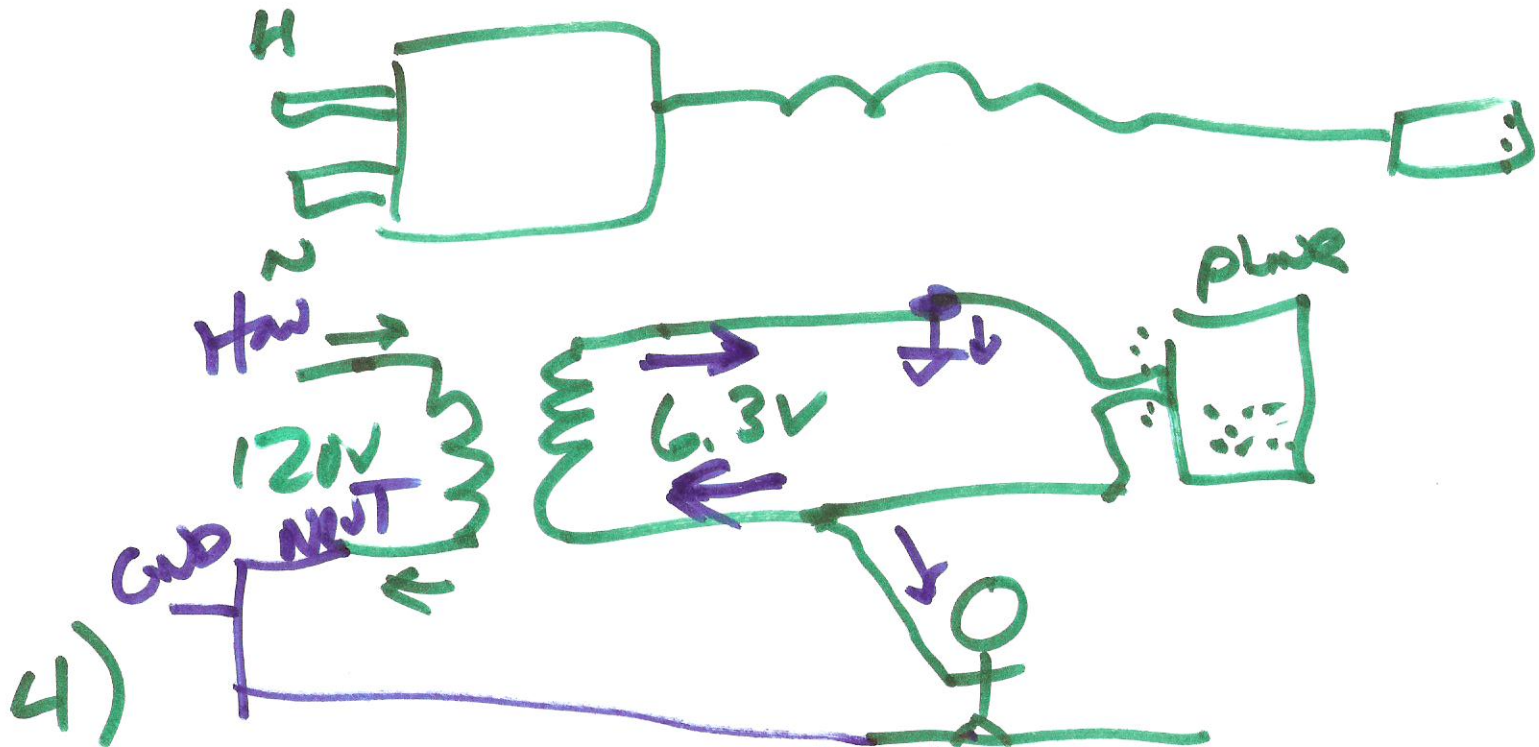
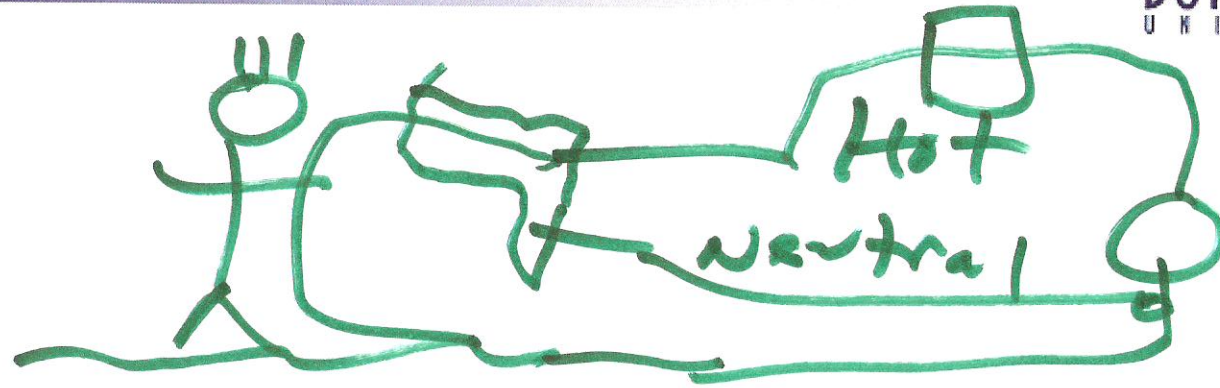


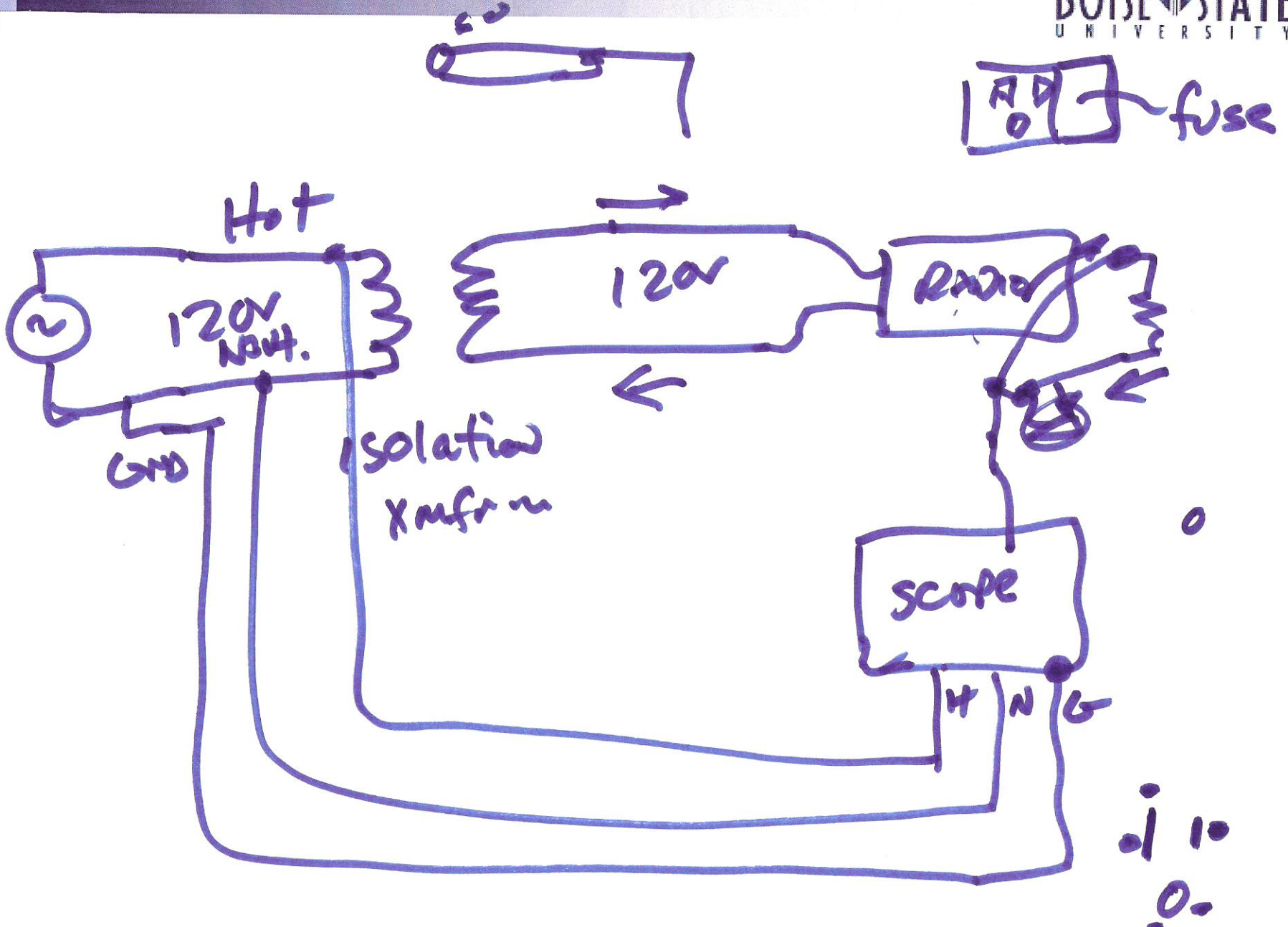
2)



3)

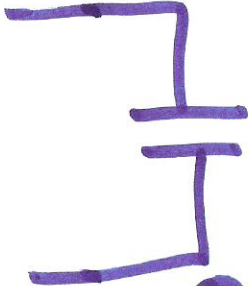
GFI





5)



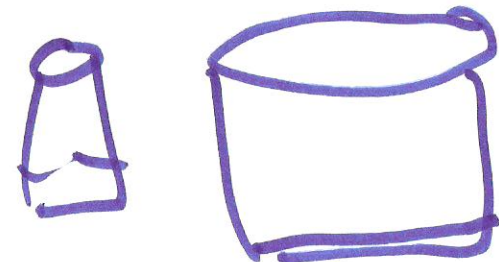


$$W = \int_{q=0}^Q V \cdot dq = \int_{q=0}^Q \frac{q}{C} \cdot dq$$

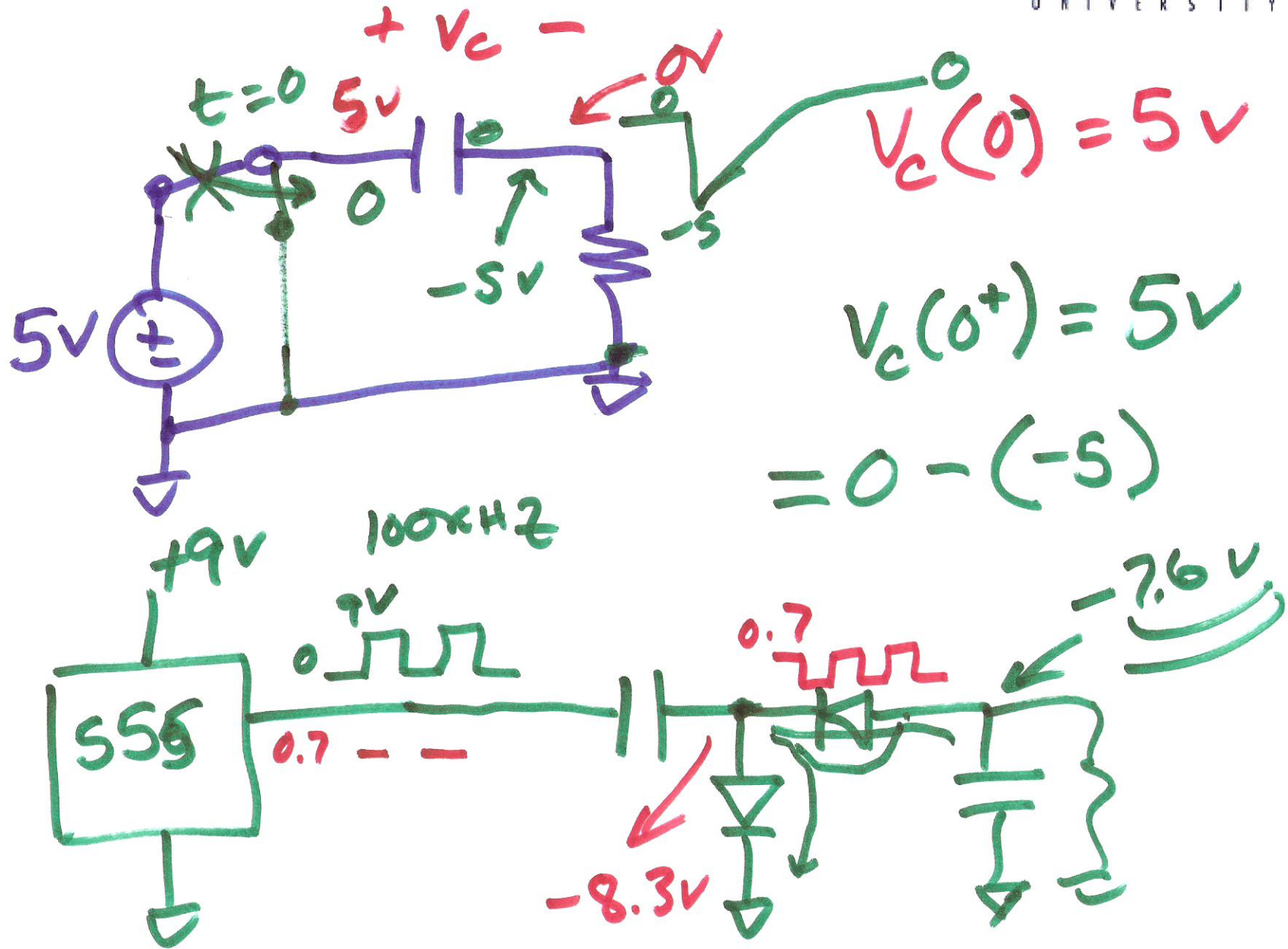
Energy (work)

$$= \frac{1}{2} \frac{q^2}{C} = \underline{\underline{\frac{1}{2} C V^2}}$$

$$C \cdot V = Q$$



6)



7)