

EE4226 - EXPERIMENT #3

IDEAL SINGLE PHASE TRANSFORMERS

Lab Section: LO2

Name: Jacob Cohen

Date: 2/14/2018

Lab Partners: Mitch Marford

Part 1:

3. Resistance $H_1 - H_3$ 1.588

Resistance $X_1 - X_2$ 0.451

High Voltage Coil H

Low Voltage Coil V

Part 2:

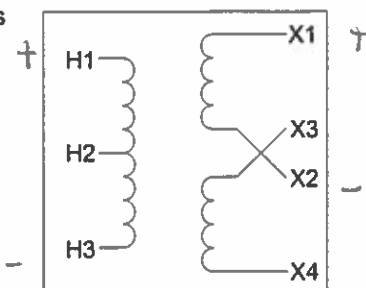
5. Voltage $H_1 - H_3$ 119.3

Voltage $X_1 - H_3$ 188.12

7. Voltage $H_1 - H_3$ 120.26

Voltage $X_2 - H_3$ 50.84

8. Draw the polarity marks



Part 3:

10. Voltage $H_1 - H_3$ 208.2

Voltage $X_1 - X_4$ 239.8

11. Voltage $H_1 - H_3$ 208.4

Voltage $X_1 - X_3$ 0.1525

Part 4:

14. V_{in} 150.1

I_{in} 1.0A

$R_{measured}$ 49.98

V_{out} 85.77

I_{out} 1.7A

$R_{calculated}$ _____

I_{coil1} 1.0

I_{coil2} 0.8A