EE4226 - EXPERIMENT #5

THREE PHASE CIRCUITS

Lab Section: ___L02___

Date: ___2/28/18___

Name: ___Jacob Cok___

Lab Partners: ___Mitch Manford___

_____

Part 1:

3.

$V_{pp} = 170$

Faulted $V_{pp} = 256$

	Magnitude	Angle
V_{AN}	0	0
V_{BN}	128	
V_{CN}	128	
V_0		
V_1		
V_2		
I_A	1.2 A	
I_B		
I_C		
I_0		
I_1		
I_2		

If ___1.2A___

Part 2:

8. Power Meter ___1335___   Wattmeter 1 ___670W___   Wattmeter 2 ___640W___

V_{ab} ___670W 208.13___ V_{bc} ___640 209.06___ V_{ca} ___209.65___

I_a ___3.2A___ I_b ___3.2___ I_c ___3.3___

I_{ab} ___1.4A___ I_{bc} ___1.6A___ I_{ca} ___1.5___

9. Power Meter ___1345___   Wattmeter 1 ___1100___   Wattmeter 2 ___200___

V_{ab} ___3.2A 208.42___ V_{bc} ___209.24___ V_{ca} ___210.59___

I_a ___5.2___ I_b ___5.0___ I_c ___5.0___

I_{ab} ___2.7___ I_{bc} ___2.8___ I_{ca} ___2.8___

$\begin{array}{c} 670 \\ 64C \\ \hline 131 \end{array}$

$\begin{array}{c} 0 \\ 0 \\ \hline 0 \end{array}$

Part 3:

13. Power Meter _1378_   Wattmeter 1 _698_   Wattmeter 2 _650_

V_{ab} _207.90_ V_{bc} _208.56_ V_{ca} _210.22_

V_{an} _120.70_ V_{bn} _119.94_ V_{cn} _121.26_

I_a _3.4_ I_b _3.2_ I_c _3.4_

I_n _0_

14. Power Meter _1367_   Wattmeter 1 _1100_   Wattmeter 2 _220_

V_{ab} _208.49_ V_{bc} _209.07_ V_{ca} _210.48_

V_{an} _120.91_ V_{bn} _120.40_ V_{cn} _121.36_

I_a _5.2_ I_b _5.1_ I_c _5.2_

I_n _0.9_

Part 4:

17. Power Meter _899_   Wattmeter 1 _680_   Wattmeter 2 _0_

V_{ab} _208.28_ V_{bc} _109.60_ V_{ca} _211.39_

V_{an} _120.66_ V_{bn} _120.37_ V_{cn} _122.61_

I_a _3.4_ I_b _3.3_ I_c _0_

I_n _3.4_

18. Power Meter _677_   Wattmeter 1 _680_   Wattmeter 2 _0_

V_{ab} _208.31_ V_{bc} _210.11_ V_{ca} _212.36_

V_{an} _121.28_ V_{bn} _120.57_ V_{cn} _122.55_

I_a _3_ I_b _2.9_ I_c _0_