

Les Borden

JATC LOCAL 103
TRANSFORMERS

12-1-2017

Homework

NAME _____

GROUP E - 1

- 1 Single phase transformers equipped with two windings on the primary and two windings on the secondary, can be wired with an input of two voltages. Either 480 or 240 volts, depending the voltage of the source. The secondary has two options, 120 / 240 or 12 / 24 volts. The voltage of the load governs the voltage output.
 - 1 How shall the two primary windings be connected if the input voltage is 480?
 - a series
 - b parallel

 - 2 How shall the two secondary windings be connected if the output is 240 volts?
 - a series
 - b parallel

- 2 It is possible to connect three single phase transformers in a Delta / WYE connection for an output of three phase input and output.

TRUE FALSE

- 3 It is possible to connect two single phase transformers in an OPEN DELTA or V to V connection and get a three phase output.

TRUE FALSE

- 4 On a four wire WYE connected secondary with the voltage between phases 208 volts, what is the volt reading from the " B " phase to the neutral conductor?
 - a 120 volts
 - b 208 volts
 - c 240 volts
 - d 277 volts

- 5 On a four wire DELTA connected secondary with the voltage between phases 240 volts, what is the voltage from the " B " phase to the neutral?
 - a 120 volts
 - b 208 volts
 - c 240 volts
 - d 277 volts