

## Hands-On Lab - Module 5 : Results

Your Name: \_\_\_\_\_ Seat \_\_\_\_\_ Date \_\_\_\_\_

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### TLC272 Op-Amp as a “Voltage Comparator”

#### **ALWAYS LEAVE CIRCUIT SET UP UNTIL YOU HAVE COMPLETED FINAL CHECK-OUT –THIS APPLIES TO ALL MODULES**

Note : All work is to be done individually, and submitted when you finish this module.

5.1) Verify: Green LED goes **ON** when switch moved **UP**. (\_\_\_ YES, \_\_\_ NO)

5.2) Verify: the regulated voltage close to +5.0 volts. (\_\_\_ YES, \_\_\_ NO)

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5.4e) **MODIFIED** Figure 1. Mims Workbook #1, Circuit Diagram from Page 80:

5.5) Is the voltage from **TLC272 IC pin 2** to ground close to **2.5 V**? ( \_\_\_ YES, \_\_\_ NO)?

5.6a) Range of voltage that yields **GREEN LED ON** \_\_\_\_\_ to \_\_\_\_\_ volts

5.6b) Range of voltage that yields **RED LED ON** \_\_\_\_\_ to \_\_\_\_\_ volts

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***Instructor check point 5M Demonstrate to instructor.***

*Final check:*

***BEFORE*** you break the circuit apart, please have your instructor review your setup for the last data set of measurements.