

Your name _____

Partner(s) _____

This is a short “report” to convey key results from this lab. Full documentation is assumed to reside in your lab book. (you can turn these questions in on engineering paper or this form).

From part 1 of the lab

What was the measured power supply voltage?

What is the theoretical voltage across R2 that you calculated?

What voltage did you measure across R2 using the little AM8 voltmeter?

What range was the AM8 set to?

If these voltages were not equal, why?

From part 3 of the lab

Possible methods of measuring an AC voltage and then displaying an RMS value include:

- True RMS (actually square, integrate, and find square root).
- Find an “average” value and then multiply by a scaling factor to get RMS.
- Find the peak value and then multiply by a scaling factor to get RMS.

What voltage did the HP-3438 or HP-3435A multi-meter display when measuring the square wave?

What was the voltage of the square wave as shown on the oscilloscope?

Using the definition of RMS voltage and the square wave magnitude as measured on the oscilloscope, calculate the RMS voltage of the square wave. Show your work.

From part 4 of the lab

What was the measured rise time?

What was the measured fall time?