



Lab Section No. : _____

Date : _____

Name : _____

Student Number : _____

LAB 1(b) – Instrumentation and Measurement

Answer Sheet

Q7. Show only the triangle wave on the scope, and capture it.

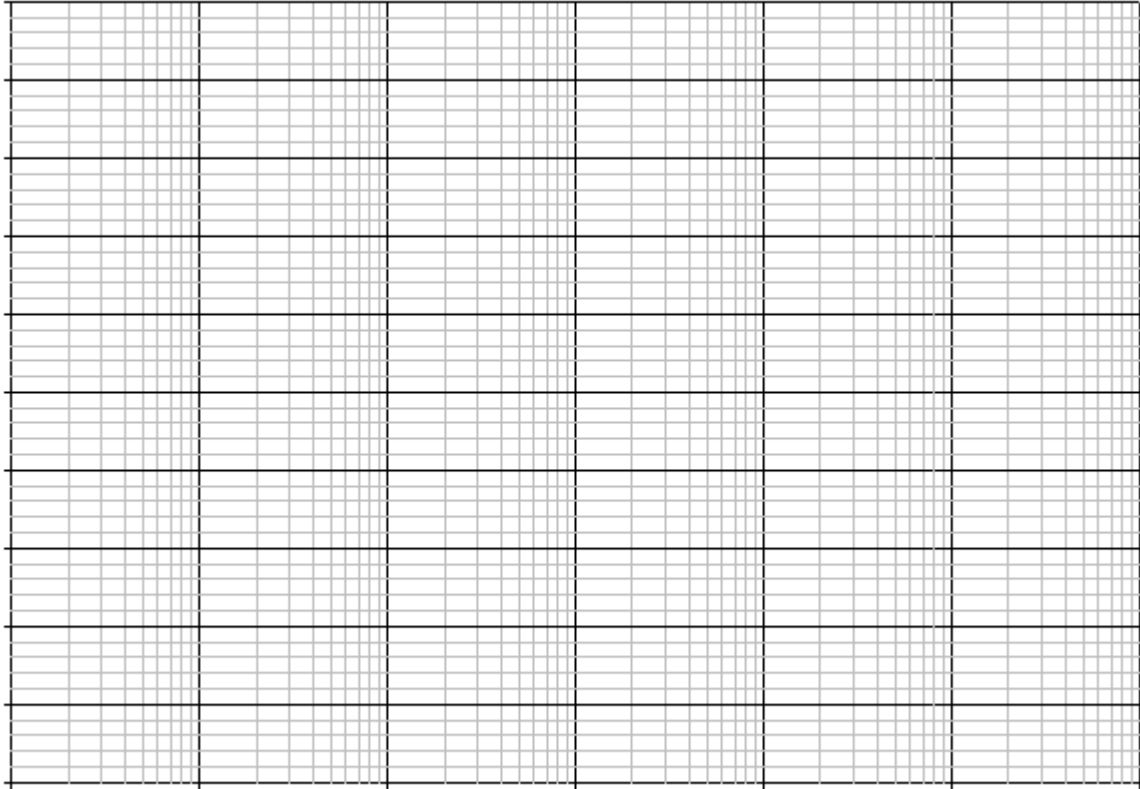
Q8. What is the frequency of the triangle wave measure in the scope? Frequency = _____Hz

Q9. Capture the resultant waveform of A-B.

Q10. What is the frequency of the resultant waveform? Frequency = _____Hz

- Q11. What is V_{DMM} (square)? _____ V rms
- Q12. What is V_{DMM} (triangular)? _____ V rms
- Q13. What is V_{DMM} (sine)? _____ V rms
- Q14. What is V (square)? _____ V rms
- Q15. What is V (triangular)? _____ V rms
- Q16. What is V (sine)? _____ V rms
- Q17. What is V_A (DMM)? _____ V
- Q18. What is V_B (DMM)? _____ V
- Q19. What is V_A (x1)? _____ V
- Q20. What is V_B (x1)? _____ V
- Q21. What is V_A (x10)? _____ V
- Q22. What is V_B (x10)? _____ V
- Q23. Explain briefly the results in Step 2, 3, and 4.

- Q24. Sketch the V_{DMM} versus frequency results obtained in step 2 and 3. Use log scale for the frequency. (You could use drawing tools in Microsoft Word to complete the plot, or you could use other software to plot the curve, like Excel, and insert the drawing below.)



Q25. What is the estimated bandwidth of the DMM from the plot? _____ Hz

Q26. Show all the circuits and waveform to TA. _____ YES / NO _____