Report: Comparators & a non-linear oscillator	
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andTejas Agarwal	
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Lab Section: E	
Graded by	
Score	

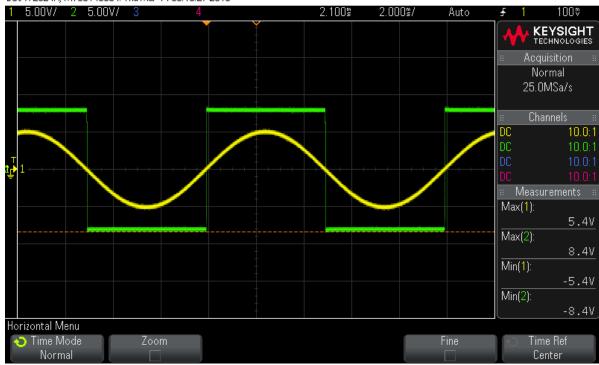
Introduction

The main objective for this lab to get us familiar with the concept of comparator and understand their working. The lab contains various possibilities with the comparators.

A. Non-inverting comparator

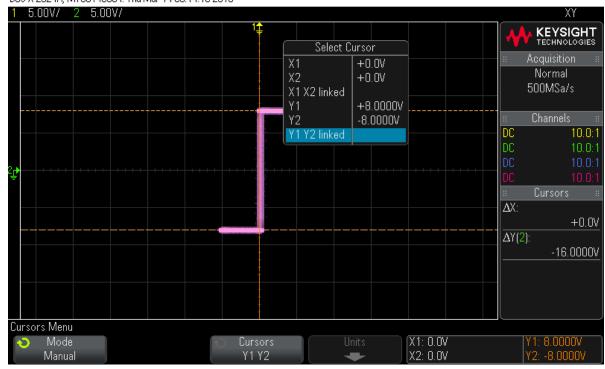
Part A - Oscilloscope Normal trace

DSO-X 2024A, MY55140904: Thu Mar 14 08:13:27 2019



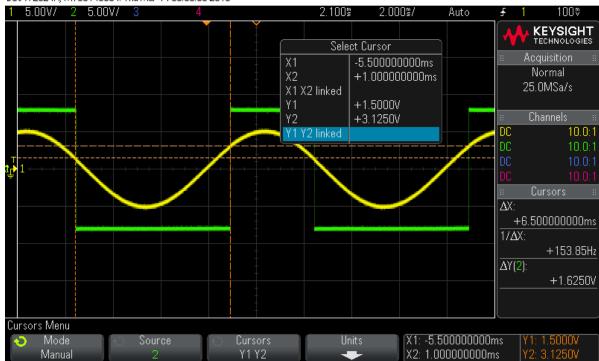
Part A - Oscilloscope XY trace

DS0-X 2024A, MY55140904: Thu Mar 14 08:14:15 2019



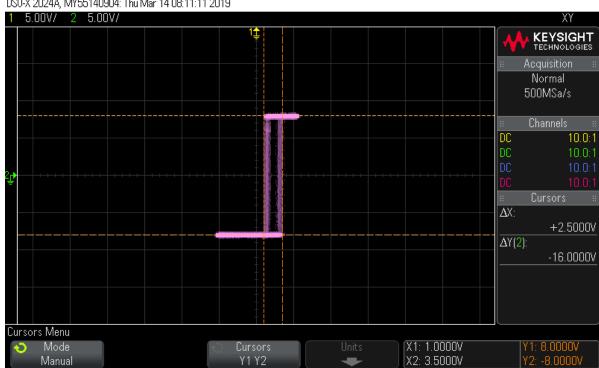
Part C - Oscilloscope Normal trace

DS0-X 2024A, MY55140904: Thu Mar 14 08:08:09 2019



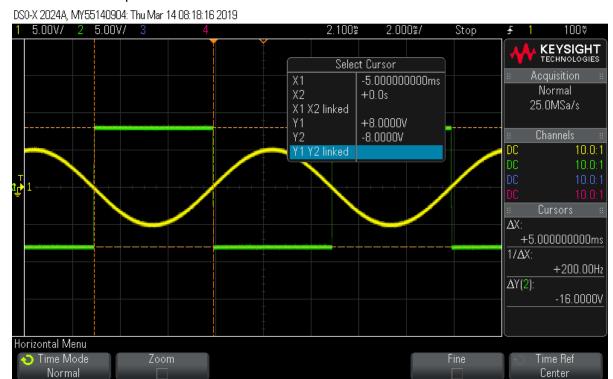
Part C - Oscilloscope Normal trace

DSO-X 2024A, MY55140904: Thu Mar 14 08:11:11 2019

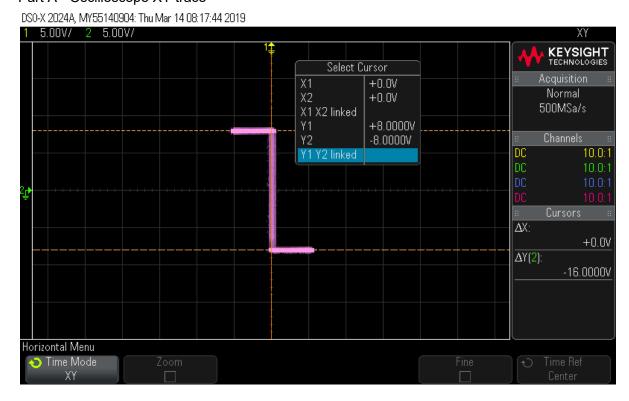


B. Inverting Comparator

Part A - Oscilloscope Normal trace



Part A - Oscilloscope XY trace

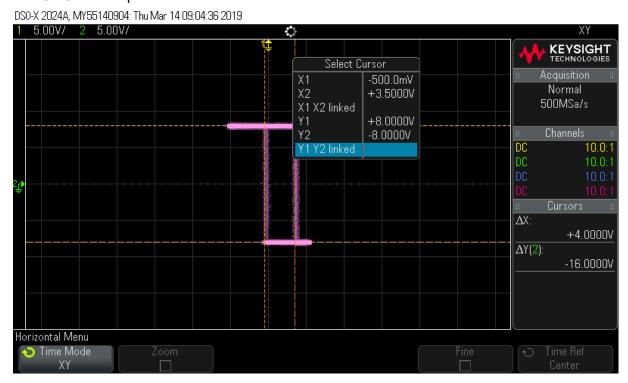


Part C - Oscilloscope Normal trace

DS0-X 2024A, MY55140904: Thu Mar 14 09:03:23 2019



Part C - Oscilloscope Normal trace



C. Non-Linear Oscillator

Oscilloscope Normal Trace -



Conclusion

This lab focuses on the working of comparators and their working with various operational amplifiers. Although the lab went pretty well, working with potentiometers is never easy, due to which the lab took significantly more time than it should.