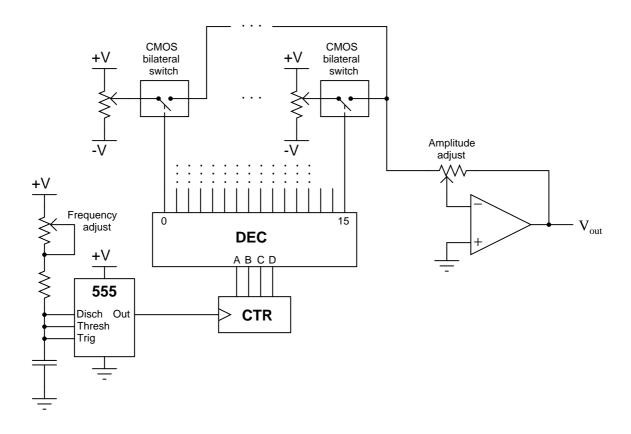
Design Project: Arbitrary waveform generator

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Your project is to build a circuit that produces any arbitrary waveform desired, made of 16 discrete steps, all set by potentiometers. The following schematic diagram is very general and does not contain enough specific information to guide you completely in the construction of this circuit. In other words, you will have to figure out some of the details yourself!



Deadlines (set by instructor):

- Project design completed:
- Components purchased:
- Working prototype:
- Finished system:
- Full documentation:

Questions

Question 1

What, exactly, is an $arbitrary\ waveform\ generator$, and for what purposes might one be used? file 04020

Answers

Answer 1

I'll let you research the answer to this question! Most arbitrary waveform generators are far more sophisticated (and expensive!) than this, and they are worth every penny in the right testing circumstance.

Notes

Notes 1

Although this circuit is not nearly advanced enough to replace the functionality of a real arbitrary waveform generator, it makes for an interesting student project, combining analog and digital circuitry in one circuit.