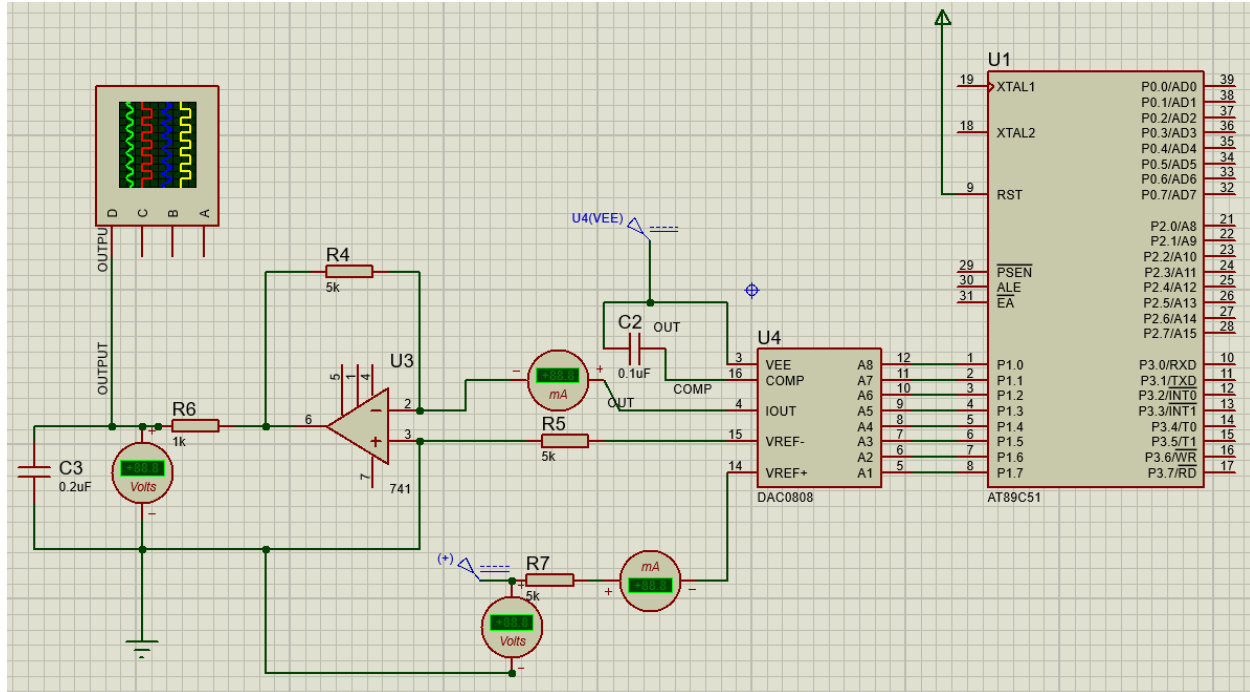


Deadline July 5, 2021



```
#include <reg51.h>
#include <stdio.h>
```

```
void main(void)
{
    P1 = 0x80;
    //P1 = 0;
    //P1 = 0xFF;
    //P1 = 0x64;

    while (1){
        }
}
```

DC Generator Properties

Generator Name: U4(V<sub>EE</sub>)

Voltage (Volts): -15

Analogue Types

☒ DC

DC Generator Properties

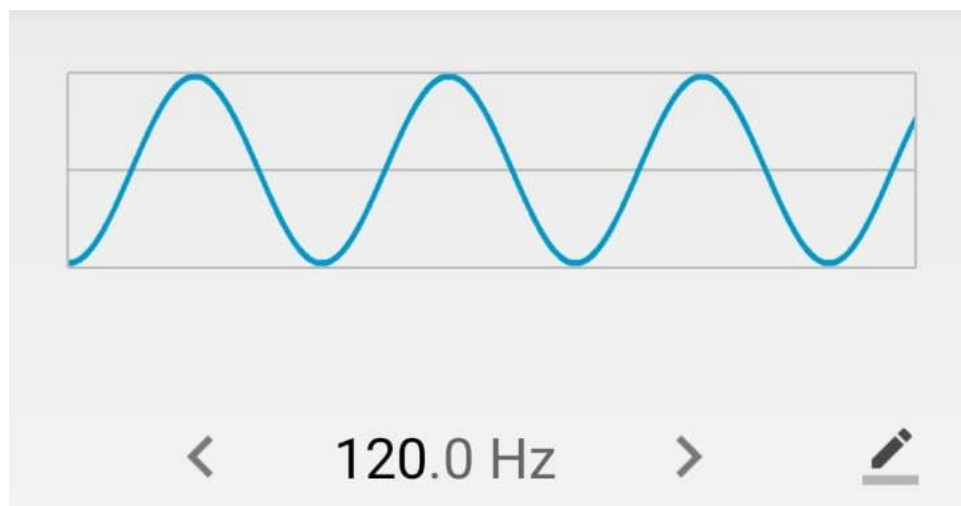
Generator Name: (+)

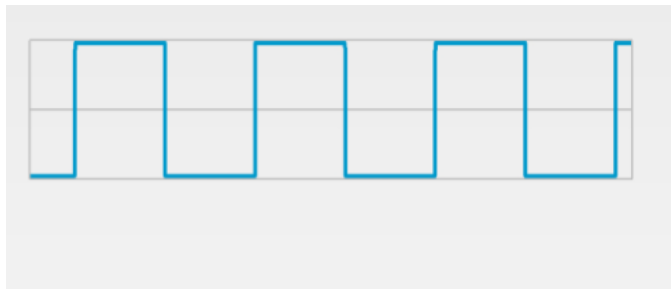
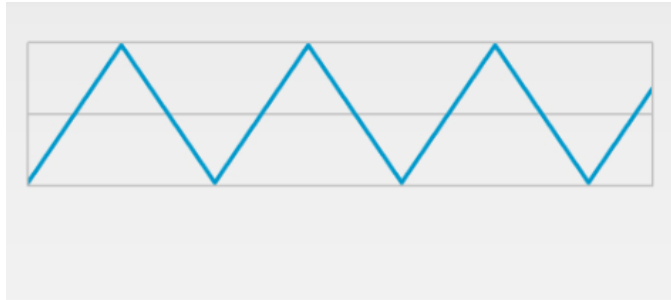
Voltage (Volts): 5

Analogue Types

☒ DC

Using the above schematics, design the following four waveforms: all of them have 120Hz frequency,





You can use a button, when pressed once then generate triangular wave, when pressed again generate the square wave and so on.