

ANNEXES

PREMIERE PARTIE 5.a

accélération 1.xlsx

Time (s)	az	az-min	PWM	PWMA
0	9,71088219	0,36032819	138,79774	139
0,01	9,71806431	0,36751031	141,56428	142
0,02	9,72165585	0,37110185	142,947733	143
0,03	9,71207905	0,36152505	139,258769	139
0,04	9,71567059	0,36511659	140,642222	141
0,05	9,71447372	0,36391972	140,181194	140
0,06	9,72644424	0,37589024	144,792216	145
0,07	9,70369911	0,35314511	136,030833	136
0,08	9,70609379	0,35553979	136,953258	137

accélération 2.xlsx

Time (s)	az	az-min	PWM	PWMA	TABLEAU
0	9,71088219	0,36032819	138,79774	139	139
0,01	9,71806431	0,36751031	141,56428	142	139,142
0,02	9,72165585	0,37110185	142,947733	143	139,142,143
0,03	9,71207905	0,36152505	139,258769	139	139,142,143,1
0,04	9,71567059	0,36511659	140,642222	141	139,142,143,1
0,05	9,71447372	0,36391972	140,181194	140	139,142,143,1
0,06	9,72644424	0,37589024	144,792216	145	139,142,143,1
0,07	9,70369911	0,35314511	136,030833	136	139,142,143,1
0,08	9,70609379	0,35553979	136,953258	137	139,142,143,1

Programme complet

```
int c[] =
{139,142,143,139,141,140,145,136,137,132,131,137,138,139,138,142,145,151,148,154,154,155,150,141,127,127,114,110,110,124,141,142,146,136,142,14
6,170,185,210,218,202,159,99,43,9,0,7,42,89,208,239,255,237,215,186,160,134,126,117,112,110,109,109,114,117,127,149,168,187,206,213,211,191,160,1
26,87,59,49,59,82,108,136,153,169,172,169,165,161,150,139,133,122,112,113,116,121,127,137,147,151,158,162,161,158,147,142,137,131,122,129,126,13
5,136,139,144,141,143,143,149,141

}; // déclaration du tableau contenant les valeurs de la colonne PWME

void setup() {
  Serial.begin(9600);


  pinMode (3, OUTPUT); // mise en sortie du port PWM correspondant au PIN 3 de l'ARDUINO
}

void loop() {

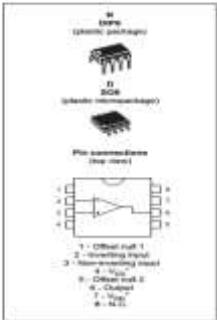
for (int i=0;i<120;i++) // boucle qui se répète autant de fois qu'il y a de valeurs, ici 120
  {

analogWrite (3,c[i]); // on écrit une valeur du tableau dans le port 3
Serial.println(c[i]);
delay(10); // on attend 10 ms avant d'écrire la valeur suivante
  }
}
```

DEUXIEME PARTIE 3.a


UA741

General-purpose single operational amplifier



1 - Offset null 1
2 - Inverting input
3 - Non-inverting input
4 - V_{CC}
5 - Offset null 2
6 - Output
7 - V_{EE}
8 - NC

Features

- Large input voltage range
- No latch-up
- High gain
- Short-circuit protection
- No frequency compensation required
- Stable pin configuration as the LM741

Applications

- Summing amplifiers
- Voltage followers
- Integrators
- Active filters
- Function generators

Description

The UA741 is a high performance monolithic operational amplifier constructed on a single silicon chip. It is intended for a wide range of analog applications.

The high gain and wide range of operating voltages provide superior performance in integrators, summing amplifiers and general feedback applications. The internal compensation network (f_c = 10Hz) ensures stability in closed loop circuits.

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