**Activity 1**

R1 = 22 kOhm

R2 = 120 kOhm

R3 = 47 kOhm

V = 6 Volts

**Activity 1**

R1 = 22 kOhm

R2 = 100 kOhm

R3 = 47 kOhm

V = 6 Volts

**Activity 2, Q1**

R1 = 10 kOhm

R2 = 5 kOhm

R3 = 10 kOhm

R4 = 5 kOhm

V = 1 V

**Activity 2, Q1**

R1 = 10 kOhm

R2 = 4.7 kOhm

R3 = 10 kOhm

R4 = 4.7 kOhm

V = 1 V

**Activity 2, Q2**

R1 = 10 kOhm

R2 = 5 kOhm

R3 = 10 kOhm

R4 = 2.2 kOhm

V = 1 V