**4.**

**Datasheet for circuit 1:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Input configuration | D | C | B | A | Output Voltage, Vo(V) |
| 1 | 0 | 0 | 0 | 0 | 0.0027 |
| 2 | 0 | 0 | 0 | 1 | -0.797 |
| 3 | 0 | 0 | 1 | 0 | -1.597 |
| 4 | 0 | 0 | 1 | 1 | -2.397 |
| 5 | 0 | 1 | 0 | 0 | -3.197 |
| 6 | 0 | 1 | 0 | 1 | -3.997 |
| 7 | 0 | 1 | 1 | 0 | -4.797 |
| 8 | 0 | 1 | 1 | 1 | -5.597 |
| 9 | 1 | 0 | 0 | 0 | -6.397 |
| 10 | 1 | 0 | 0 | 1 | -7.197 |
| 11 | 1 | 0 | 1 | 0 | -7.997 |
| 12 | 1 | 0 | 1 | 1 | -8.797 |
| 13 | 1 | 1 | 0 | 0 | -9.597 |
| 14 | 1 | 1 | 0 | 1 | -10.397 |
| 15 | 1 | 1 | 1 | 0 | -11.197 |
| 16 | 1 | 1 | 1 | 1 | -11.997 |