## **Logic Circuit From Equation or Truth Table**

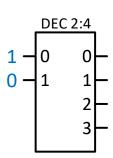
$$F = ABCD$$

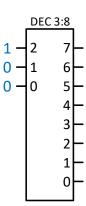
Α	В	С	F
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	0

$$F = \overline{A + B\overline{C}} \cdot D$$

### **Decoders**

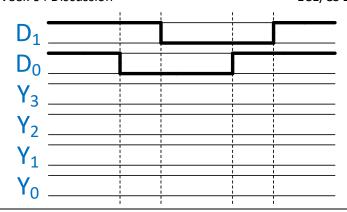
Fill in the output values based on the provided input values.





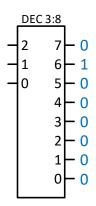
## **Decoder Waveform**

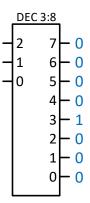
Complete the decoder waveform.



#### **More Decoders**

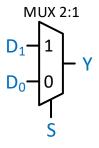
Determine what the decoder inputs must be based on the values of the decoder outputs.

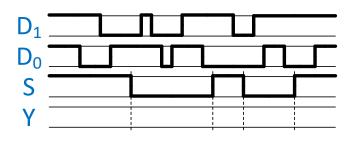




# **Multiplexer Waveform**

Complete the multiplexer waveform.





#### **Adders**

Connect the adder inputs so that it performs the computation K + M, where K=5 and M=6.

