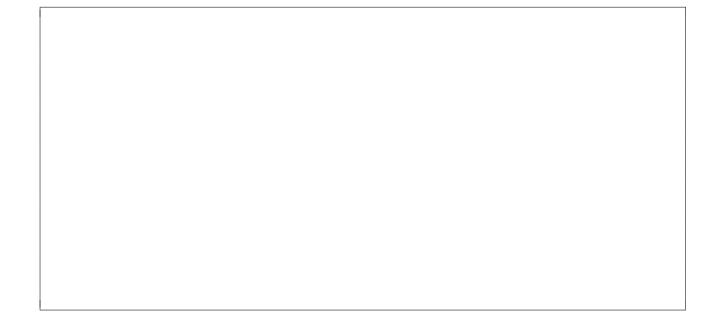


Question 1: Forming Equations from Logic Diagrams What equation does this circuit diagram represent?

Question 2: Forming Logic Diagrams from Equations Draw the circuit diagram that represents the equation below.

$$Y = \overline{(\overline{A})(\overline{B} + C) + \overline{DE}}$$



Question 3: Forming Truth Tables from Equations Fill in the truth table for the following equation:

$$Y = \bar{A}\bar{B} + \overline{AB}$$

A	В	C	Y
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	

Question 4: Forming Equations from Truth Tables Write down the boolean equation for the following truth table, where Y is a function of the three inputs, A, B, and C:

A	В	C	Y
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1