Quiz 1: Ten minutes

1. Use a Karnaugh map to simplify the equation:

$$Y = \bar{A}B\bar{C} + \bar{A}BC + AB + A\bar{B}\bar{C}$$

Please provide both the K-map and the simplified equation.

2. Extract the product-of-sums formula from the table to the right.

A	B	Y
0	0	0
0	1	0
1	0	1
1	1	1

Quiz 1: Ten minutes

1. Use a Karnaugh map to simplify the equation:

$$Y = \bar{B}\bar{C} + \bar{A}B\bar{C} + \bar{A}\bar{B}C + A\bar{B}C$$

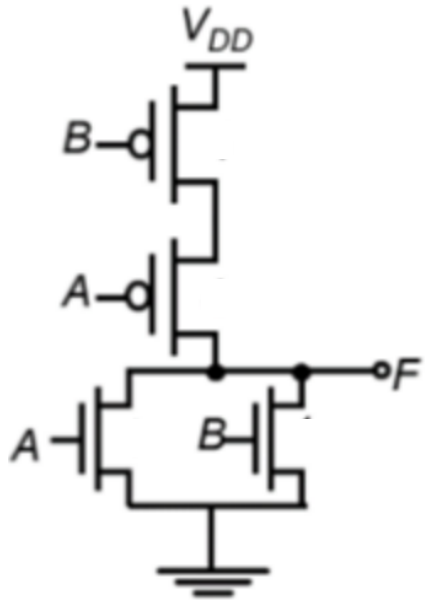
   Please provide both the K-map and the simplified equation.

2. Extract the product-of-sums formula from the table to the right.

A	B	Y
0	0	1
0	1	1
1	0	0
1	1	0

Quiz 1: Ten minutes

1. Please provide the truth table describing the behaviour of the CMOS transistor diagram to the right.



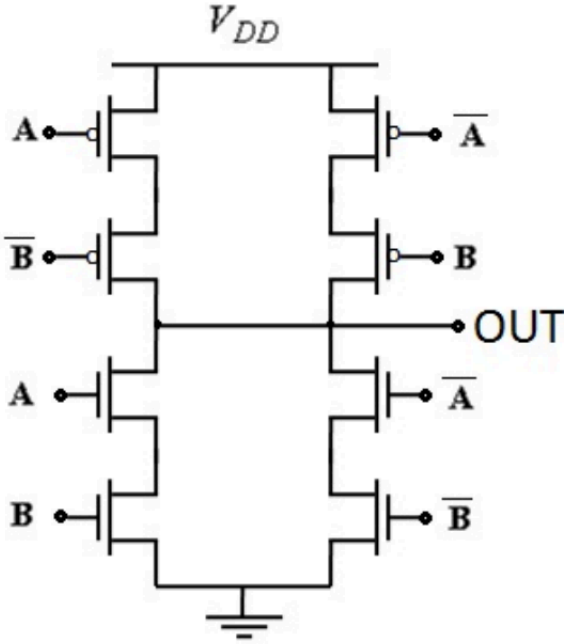
2. Use a Karnaugh map to simplify the equation:

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

   Please provide both the K-map and the simplified equation.

Quiz 1: Ten minutes

1. Please provide the truth table describing the behaviour of the CMOS transistor diagram to the right.



2. Use a Karnaugh map to simplify the equation:

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

   Please provide both the K-map and the simplified equation.