Tutorial-7 Winter 2024 Basic Electronics (ECE113)

Q1: For the given circuit (Figure-1), if $V_{in} = V_m \sin wt$ then analyse the following things:

- 1. Draw Vo vs t
- 2. Draw Vo vs Vin

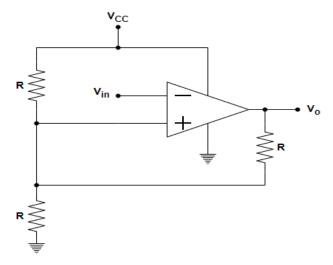
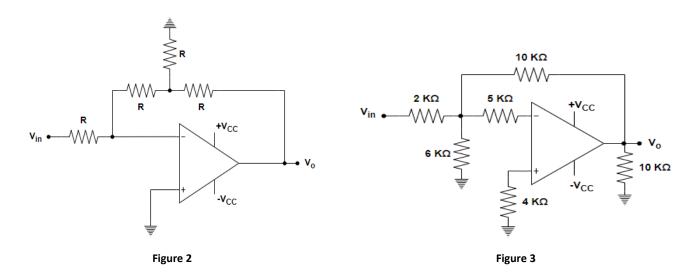


Figure 1

Q2: In Figure-2, find out the output voltage (V_o).



Q3: In Figure-3, find the output voltage (V_o).

Q4: Find outputs (V_o) in Figure-4, for different given possible combination of inputs in Table-1 (if V_{cc} = 15V):

V_{in1}	V_{in2}
0 V	0 V
0 V	1 V
1 V	0 V
1 V	1 V
Table 1	

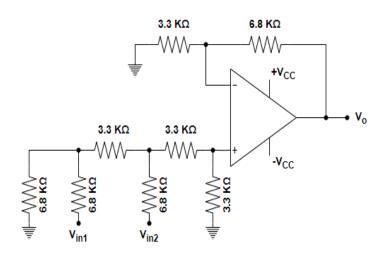


Figure 4