Question 1:

![Circuit Diagram](image)

i) Find the Square wave input response of the circuit at the frequency of 5 K Hz having peak to peak voltage of 10 V (-5V to 5V).
ii) Describe the response obtained in (i).
iii) Guess a function that fits the shape of the response obtained in (i). Be as specific as you can about the form of the function.
iv) Find the sine wave input response of the circuit at the frequency of 5 K Hz having peak to peak voltage of 10 V (-5V to 5V).
v) Calculate the gain at that frequency. (Use Max(Vout)/Max(Vin)).
vi) Test whether the gain changes with frequency or not.

Question 2:

![Circuit Diagram](image)

i) Find the Square wave input response of the circuit at the frequency of 5 K Hz having peak to peak voltage of 10 V (-5V to 5V).
ii) Describe the response obtained in (i).
iii) Guess a function that fits the shape of the response obtained in (i).
iv) Find the sine wave input response of the circuit at the frequency of 5 K Hz having peak to peak voltage of 10 V (-5V to 5V).
v) Calculate the gain at that frequency. (Use Max(Vout)/Max(Vin)).
vii) Test whether the gain changes with frequency or not.
Question 3:

i) Find the Square wave input response of the circuit at the frequency of 5 K Hz having peak to peak voltage of 10 V (-5V to 5V).

ii) Describe the response obtained in (i).

iii) Guess a function that fits the shape of the response obtained in (i). Be as specific as you can about the form of the function.

iv) What is different about this response compared to Question 1 & 2? Explain why the response is different.