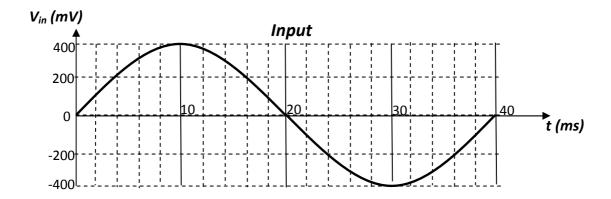
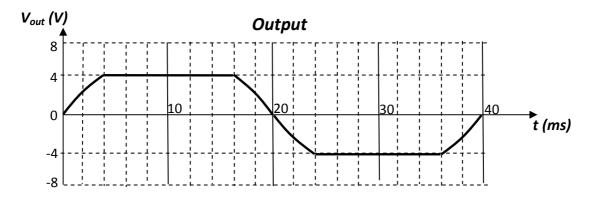
Exam Style Questions – Amplifiers

The following information relates to questions 1-3

The input and output signals of a voltage amplifier are shown below.





Question 1

What is the voltage gain of this amplifier in its linear region?

2 marks

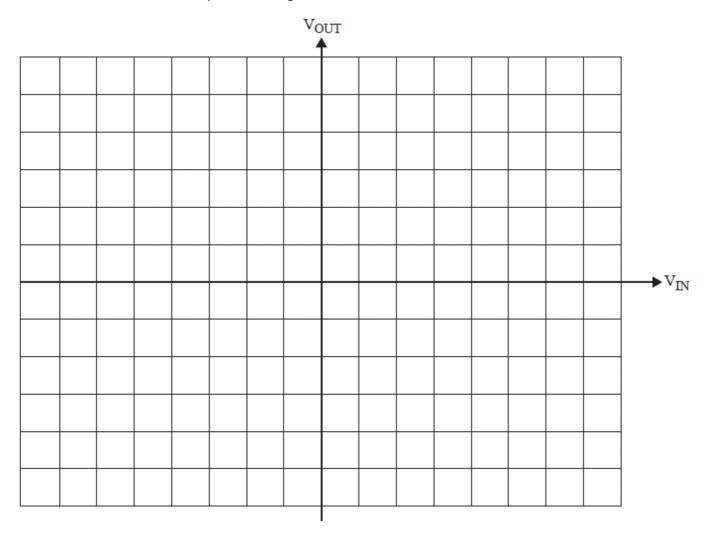
Question 2

State whether the amplifier is inverting or non-inverting.

1 mark

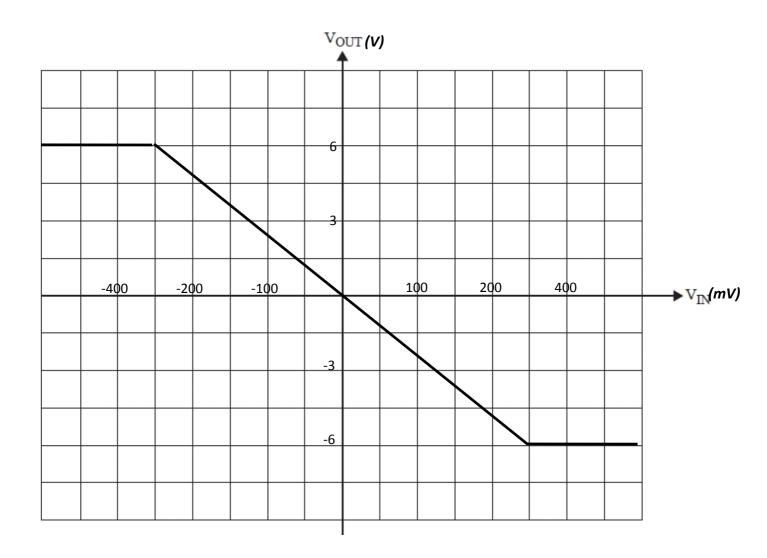
Question 3

Draw the characteristics of this amplifier on the grid below. Include a scale on both axes.



3 marks

Below is the voltage characteristic of a voltage amplifier.



Question 4

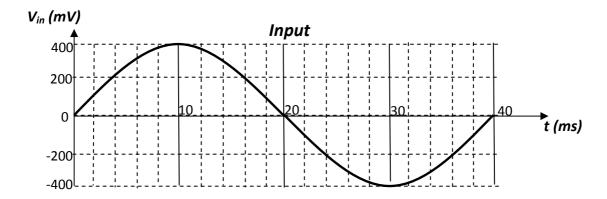
What is the voltage gain of this amplifier in its linear region?

2 marks

Question 5

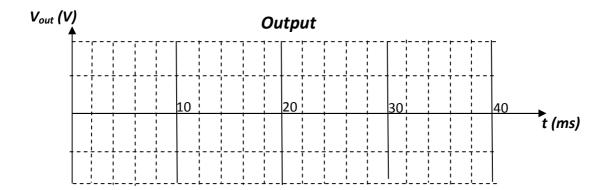
State whether the amplifier is inverting or non-inverting.

The signal below is the input to the amplifier.

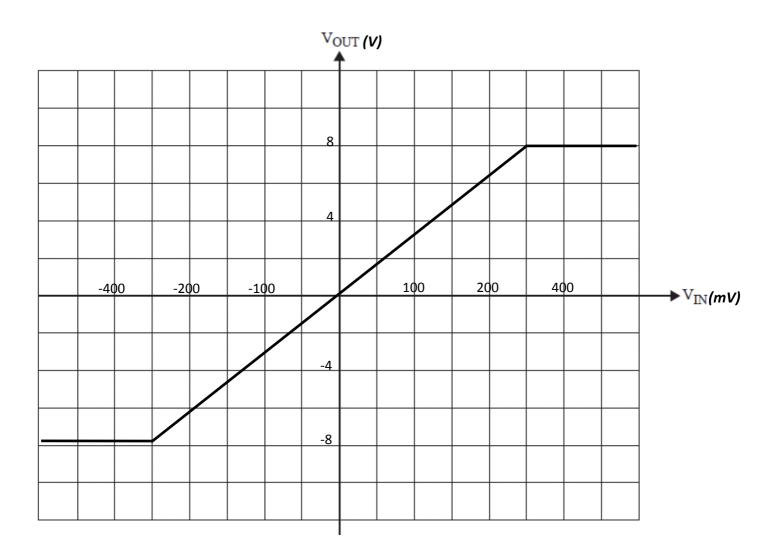


Question 6

Sketch the output signal. Include a scale of the vertical axis.



Below is the voltage characteristic of a voltage amplifier.



Question 7

What is the voltage gain of this amplifier in its linear region?

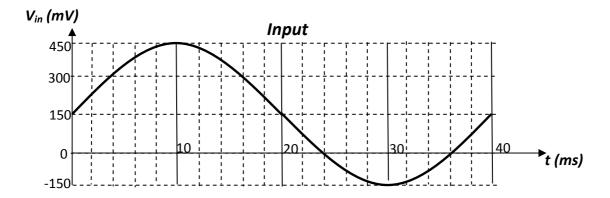
2 marks

Question 8

State whether the amplifier is inverting or non-inverting.

1 mark

The signal below is the input to the amplifier.



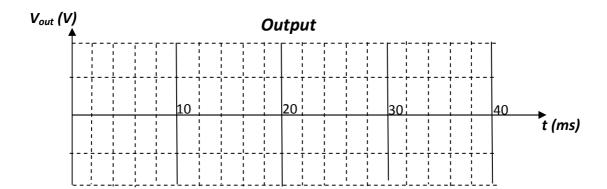
Question 9

What is the frequency of the input signal?

2 marks

Question 10

Sketch the output signal. Include a scale of the vertical axis.



3 marks