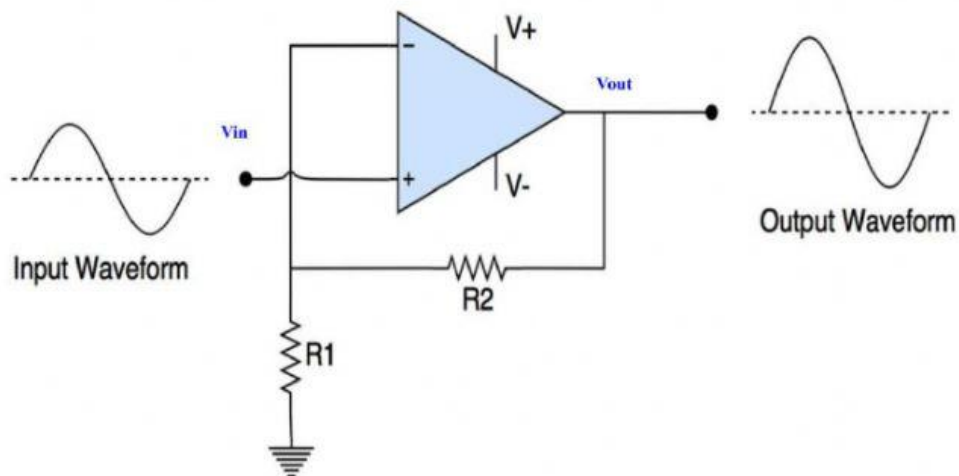


PC5.3 Non-Inverting Amplifier

For the non-inverting amplifier shown below, answer questions a to d.



- a) What is the output expression?
- $V_{out} = V_{in}$
 - $V_{out} = V_{in}(R_2/R_1)$
 - $V_{out} = V_{in}(1+R_2/R_1)$
 - $V_{out} = V_{in}(1+R_1/R_2)$
- b) If $R_1=1K\Omega$, $R_2=10K\Omega$, $V_{in}= 2V$. Calculate the voltage Gain A ?
- c) If $R_1=1K\Omega$, $R_2=10K\Omega$, $V_{in}= 2V$. Calculate V_{out} ?
- d) Is the output of this amplifier inverted?