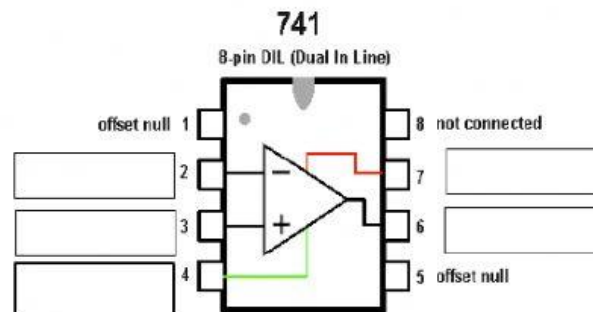


Name		Section	
ID		Date	

- 1) In the following Operation Amplifier, fill in the boxes with the proper pin name.
[Output, Non-Inverting Input, Inverting Input, V+ Power, V- Power]

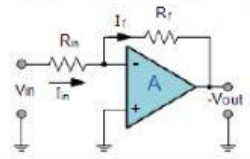
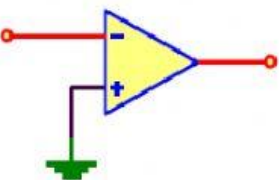
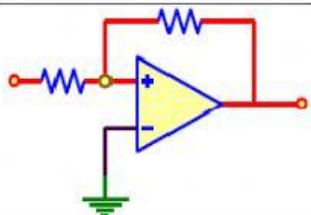
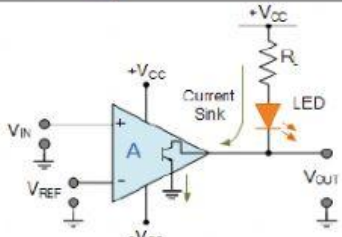


- 2) Tick the correct circuit symbol of the Operation Amplifier.

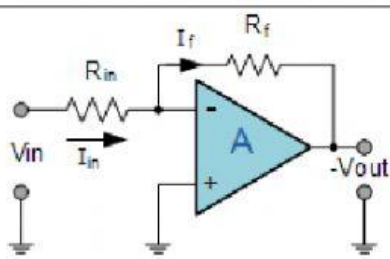
- 3) Tick the general equation that relates Operational Amplifier inputs to its outputs.

$A = (1 + R_2/R_1)$	$V_{out} = -\frac{R_f}{R_{in}} V_{in}$	$V_{out} = V_{in} \left(1 + \frac{R_2}{R_1}\right)$	$V_{out} = A(V_n - V_i)$	$V_{out} = R_2 (V_2 - V_1) / R_1$

4) Classify the following Op-Amp circuit configurations. Tick the correct boxes.

circuit	open loop	closed loop	positive feedback	Negative feedback
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐
	☐	☐	☐	☐

5) Name then complete the formula of each output of the following OP-AMP circuits. You are asked to Calculate the V_o , if $R_f = 10K\Omega$ and $R_i = 1K\Omega$.

Circuit and Formula	Name of circuit configuration and calculate Vout.
 $A = \frac{V_{out}}{V_{in}} =$	Let $V_{in} = 1V$ Circuit configuration: Vout=