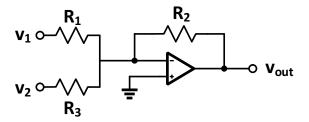
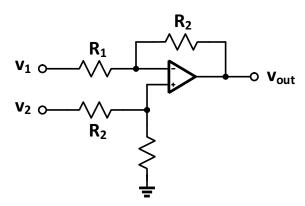
Name: UIN:

1. Compute  $\mathbf{v_{out}}$  in the circuit shown below.



2. Compute  $\mathbf{v_{out}}$  in the circuit shown below.



3.	Sketch a op-amp circuit that gives output $\mathbf{v_{out}} = \mathbf{v_{in1}} + \mathbf{v_{in2}}$ , where $\mathbf{v_{out}}$ denotes the output voltage, and $\mathbf{v_{in1}}$ and $\mathbf{v_{in2}}$ denote the two input voltages.