EE100 Lab Report: **Design Poor Man’s Square Wave Signal Generator**

Name: __________________________
TA: __________________________
Section: _______________________

1-a) Record DC measurement values. For what range of input voltages is the virtual ground property is valid?

<table>
<thead>
<tr>
<th>$V_{IN}$</th>
<th>$V_{VGND}$</th>
<th></th>
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</thead>
<tbody>
<tr>
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</table>

Validity range and condition:

1-b) Record DC measurement values.

<table>
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</table>

Necessary conditions for virtual ground property are: ______

1-c) Record DC measurement values.

<table>
<thead>
<tr>
<th>$V_{IN}$</th>
<th>$V_{OUT}$</th>
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Saturation level is: ______

Transfer chart:
1-d) Input output signal and the transfer characteristic:

Conclusion:

1-e) Input output signal and the transfer characteristic:
Conclusion:

1-f) Input-output are

Conclusion:
Conclusion:

1-g)

Conclusion:

1-h)
2-a) the transfer characteristic is:

\[ V_{\text{OUT}} \]

\[ V_{\text{IN}} \]

Conclusion:

2-b) the transfer characteristic is:

\[ V_{\text{OUT}} \]

\[ V_{\text{IN}} \]

Conclusion:
2-c) the transfer characteristic is:

Conclusion: