EE271A   Quiz 5   Fall 2015   Name_____
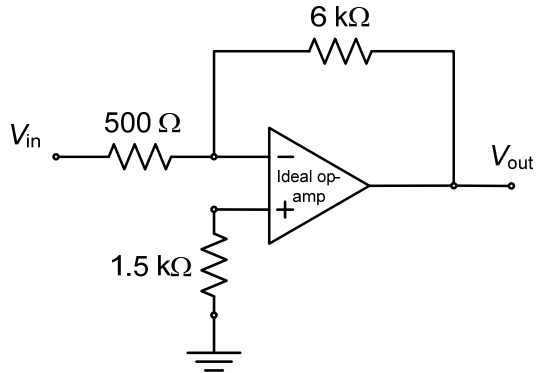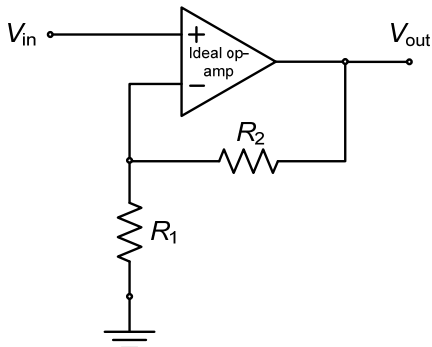
<u>You are allowed to use your lab manual and lab notebook during the quiz.</u>

(1) (30 points) For the op amp circuit shown, write V_{out} in terms of V_{in}.

(2) (35 points) If you have only one op amp and <u>five</u> 1 kΩ resistors available, how would you construct a non-inverting amplifier circuit (as shown) such that $V_{out} = 7V_{in}$? Draw the designed circuit completely showing all the connections and element values and provide your justification.

(3) (35 points) In the op amp circuit shown, find V_{out1} and V_{out2} in terms of V_{in}.