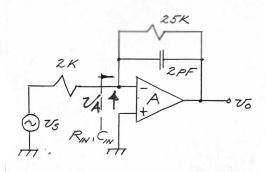
Quiz 11	(10p	ts)
Novemb	er 22	2013

Name	01.5
ID	



1. Consider the voltage amplifier in the circuit above to be ideal except that it has a finite gain A=49. Using Miller's theorem, determine the input resistance, R_{IN} , and input capacitance, C_{IN} , at the input to the amplifier.

$$R_{IN} =$$
_____(5 pts)

$$C_{IN} =$$
 (5 pts

EXTRA CREDIT:

To find the 3_{dB} frequency for v_o/v_s we need to know the RC time constant seen by the source, v_s . What is the value of R in the RC time constant?