EECS/CSE 70A Network Analysis I

Homework #2

Due on or before 4/19/2018, Thursday 10 am (You can submit your homework in any of the Tuesday or Thursday discussions before or on 4/19/2018) Problem 1: (VCCS) Find I₂. **1.5 points**







Problem 4: Find R_{eq} . Please use the parallel sign "//" as discussed in class. 2 points



Problem 5: Find R_{eq} . Please use the parallel sign "//" as discussed in class. 2 points



Problem 6: All of the resistors below are $R_0\,\Omega.$ Find R_{eq} .

2.5 points



Problem 7: (Potentiometer) In the circuit below, the wiper divides the potentiometer resistance R between two resistances R(1- α) and R α where 0< α <1. α is a parameter modeling the wiper's position. Find the value of voltage V_{out} in terms of V_s if the value of α is

¹/₂. **3 points**

