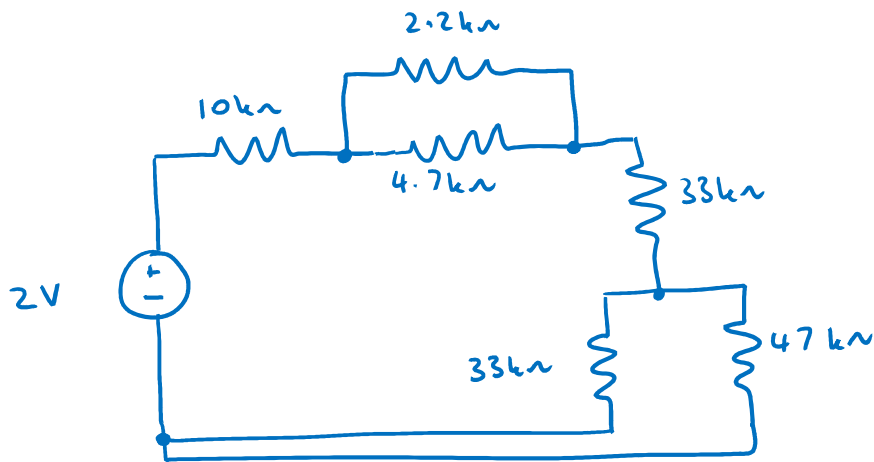**Name:**   **Student ID:**

Pre-tutorial 2 Questions (to be attempted before class on March 15th, 2019)

Chapter 3, Ex 67: Voltage and current divider, and resistor combinations

a) Use voltage division to calculate the voltage across the 47 kΩ resistor in the circuit above.

b) Find the current down the 47 kΩ resistor using current divider.

Chapter 4, Ex 19: Nodal analysis

Using nodal analysis, find the value of k that will result in $v_y = 0$ in the circuit below.