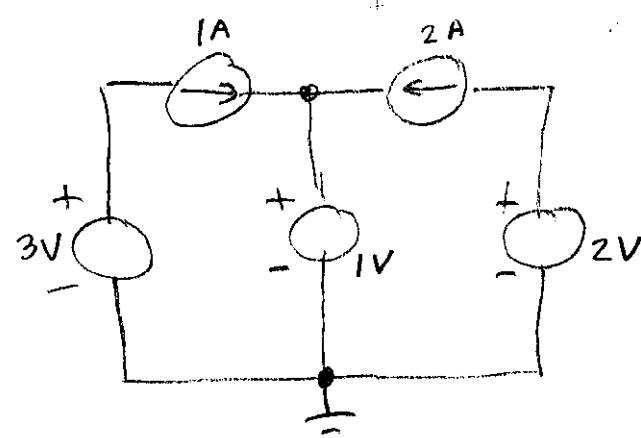


Name _____

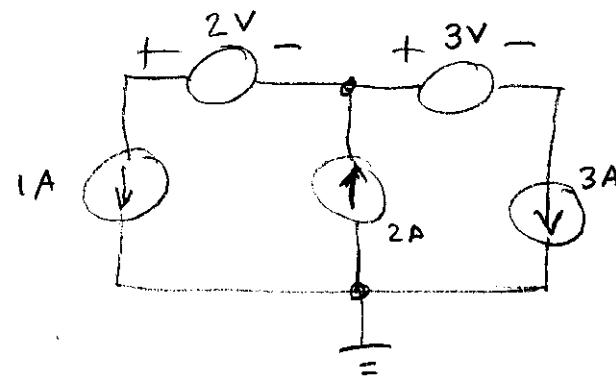
Are these circuits valid?

(a)

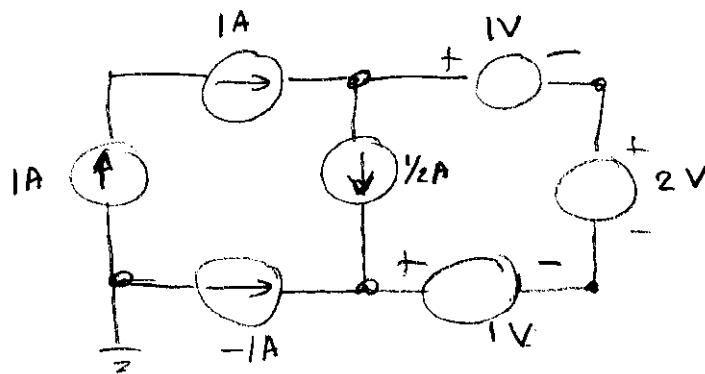


If not, why not?
 If valid, solve it for
 all node voltages
 and branch currents.

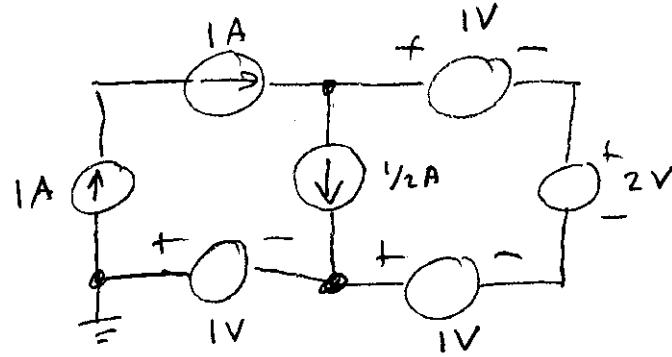
(b)



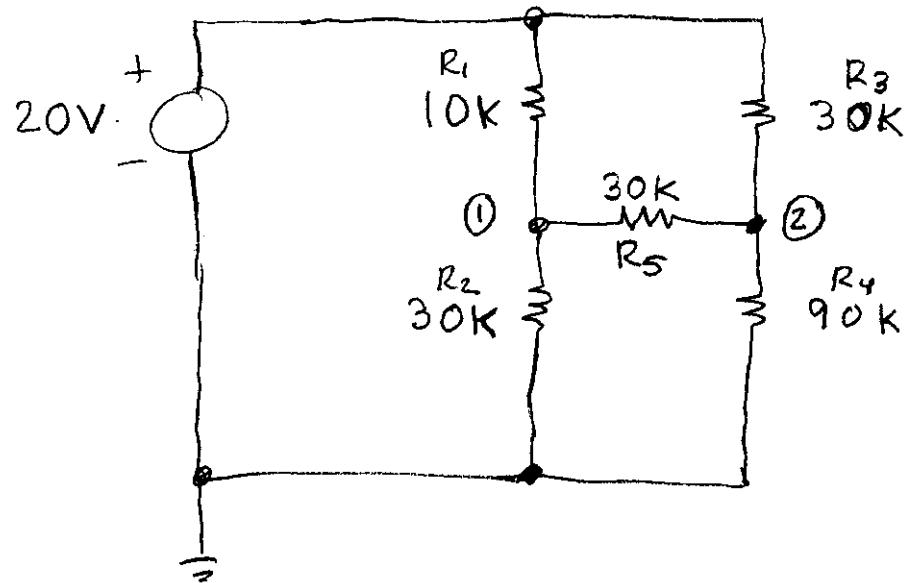
(c)



(d)

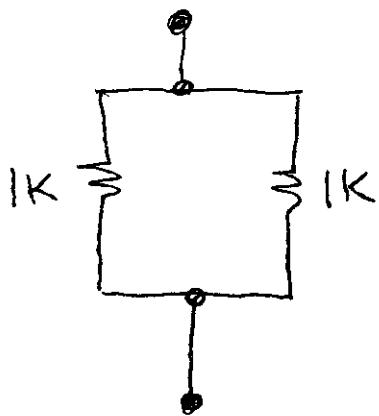


② Write the node equations for nodes ① and ② then find all of the node voltages, and the current through R_5 .



③ What is the equivalent resistance?

(a)



(b)



If you know the formula, use it.

Otherwise, Apply a 1 volt source
and solve for current. Then use Ohm's law.