SHOW ALL WORK!!!!
REPORT ALL NUMBERS TO THREE SIGNIFICANT FIGURES!
Use the conversion constants and data given on the front page.

For the circuit shown:

(a) How many TOTAL junctions are there?
(b) How many TOTAL branches are there?
(c) How many independent LOOP equations can be written?
(d) Write the junction equation for junction (A).
(e) Write the LOOP equation for loop (B) going clockwise around the loop. If you use a sign convention different from that used in class, make that clear.

5 a) 0
5 b) 10
5 c) \[ 10 - (a-1) = 5 \]
5 d) \[ I_3 + I_5 + I_7 + I_9 - I_4 = 0 \]
5 e) \[ I_5 R_5 - E_3 + I_4 R_4 - I_2 R_2 = 0 \]