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

Given the circuit shown.

(a) How many junctions are there?
(b) How many independent junction equations can be written?
(c) How many unknown currents are there?
(d) Using the current designations given, write the junction equations for junction (A).
(e) Using the current designations given, write the loop equation going all the way around the outside and going clockwise. If you use a sign convention different from that used in class, give a clear explanation.

\[ \sum I_1 = I_2 - I_4 - I_5 - I_6 = 0 \]
\[ \sum \epsilon_1 - I_1 R_1 - I_2 R_2 + \epsilon_2 - I_5 R_5 - I_7 R_7 - I_8 R_8 - I_9 R_9 = 0 \]