Problem 1: Given the circuit below, that I_{S1}, I_{S3} and R's are known.

1. Which mesh current(s) are known?
2. Which mesh current(s) are dependent?
3. Write the equation(s) to solve the circuit by mesh analysis.
4. Box the equation(s) you would use to solve the system and list the unknowns for which you are solving.
   a. Reduce to the form of: \([R_1 + R_2]i_1 + [R_3]i_3 = V_{S1}\) (just an example)
5. Write an equation to solve for the voltage across I_{S1} in terms of mesh currents and resistors.