Special Problem 3.0-3

Consider the circuit below:

14.0 V

\[ R_1 = 1\,kΩ \]

\[ V_A \]

\[ R_2 = 1\,kΩ \]

4.0 V

\[ R_3 = 1\,kΩ \]

6.0 V

Determine the value of voltage \( V_A \), and the current flowing through all three resistors.