Introduction to Electrical Engineering
Show your work.

HINT: All the answers are integers.

1. (20)
\[ R_{CD} = \] [Diagram of circuit with resistors labeled 4.5Ω, 3.6Ω, 1.8Ω]

2. (20)
\[ R_{EF} = \] [Diagram of circuit with resistors labeled 12.5Ω, 7.5Ω, 10Ω, 8.5Ω, 10.5Ω]

3. (20)
\[ R_{AD} = \] [Diagram of circuit with resistors labeled 10Ω, 14Ω, 6Ω, 12Ω, 5Ω]

4. (20)
Use network reduction (combining resistors in series and parallel) to find I.
\[ \text{Diagram of circuit with 12Ω, 40V, 5Ω, 19Ω resistors} \]

5. (20)
Use the voltage divider formula to find V.
\[ \text{Diagram of circuit with 5Ω, 40V, 6Ω, 15Ω resistors} \]