**HINT:** All the answers are integers.

1. (20)

   \[
   R_{CD} = \frac{36 \cdot 18}{36 + 18} = 12
   \]

   \[
   R_{CD} = 4 + 12 = 16 \Omega
   \]

2. (20)

   \[
   10 \parallel 10 = 5 \Omega
   \]

   \[
   R_{EF} = \frac{12 + 12}{12 + 12} = 6 \Omega
   \]

3. (20)

   \[
   R_{AD} = \frac{10 + 4}{14 + 14} = 7 \Omega
   \]

4. (20)

   Use network reduction (combining resistors in series and parallel) to find \( I \).

   \[
   I = \frac{E}{R_{eq}} = \frac{40}{6} = \frac{5A}{12}
   \]

5. (20)

   Use the voltage divider formula to find \( V \).

   \[
   V_2 = \frac{V_2 R_2}{R_1 + R_2} = \frac{40 (5)}{15 + 5} = 10V
   \]