Math 221: Venn Diagram Worksheet

Let

$$A = \{1, 2, 4, 8\}, \qquad B = \{2, 4, 6, 8, 10\}, \qquad C = \{2, 3, 5, 7\} \qquad \text{and} \qquad U = \{x \in \mathbb{Z} \mid 1 \le x \le 10\}.$$

Compute and use the figures below to illustrate each of the following:

 $A\cup B,\quad A\cap B,\quad A\cup B\cup C,\quad B-C,\quad \overline{C},\quad (A\cup B)-C,\quad A\cup (B-C)\quad \text{and}\quad A-(B\cup C).$















