Name: ________________________________

**Problem 1.** Sketch the following sets. Be sure to label your Venn diagrams.

\[
\begin{align*}
(A \cap B) - C \\
(B \cap C) - A
\end{align*}
\]

**Problem 2.** The Venn diagrams in the first problem should look different. Give an explicit example of sets \(A, B, \) and \(C\) such that \((A \cap B) - C \neq (B \cap C) - A:\)

\[
\begin{align*}
A &= \quad \\
B &= \quad \\
C &= \quad \\
(A \cap B) - C &= \quad \\
(B \cap C) - A &= \quad
\end{align*}
\]