Quiz 1: October 4, 2018

Left Neighbor:	Right Neighbor:
Name:	Student ID:
Section TA:	

This is a closed book quiz

1. (3 points) Suppose $A_1 = \{a, b, d, e, g, f\}, A_2 = \{a, b, c, d\}, A_3 = \{b, d, a\}, A_4 = \{a, b, h\}.$ What is $\bigcap_{i=1}^{4} A_i$? What is $\bigcap_{i=1}^{4} A_i$?

2. (3 points) Suppose sets A and B are in a universal set U. Draw Venn diagrams for $\overline{A \cup B}$ and for $\overline{A} \cap \overline{B}$. Based on your drawings, do you think it's true that $\overline{A \cup B} = \overline{A} \cap \overline{B}$?

3. (4 points) What is $\mathscr{P}(\mathscr{P}(\{2\}))$