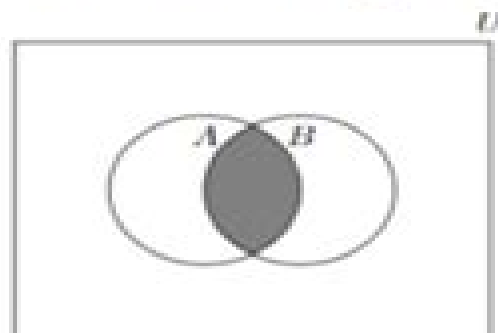
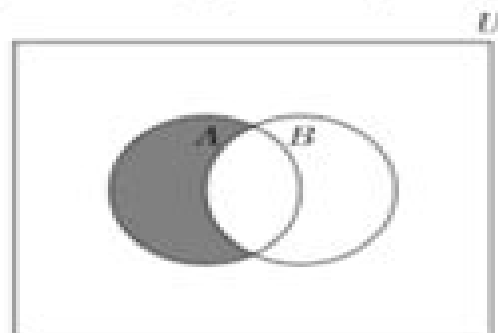


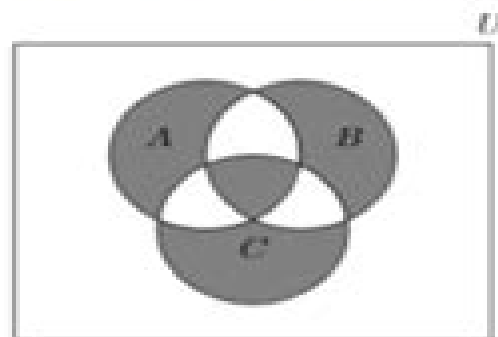
2. [4 marks] Venn diagrams. Sets can be represented by Venn diagrams. These are overlapping circles, with the different regions formed representing the result of different set operations. For example, the set $A \cap B$ is show below by the region shaded in grey:



- (a) Write an expression representing the set shown in grey in the following diagram:



- (b) Draw a Venn diagram representing the set $(A \cap B) \cup (A \cup B)^c$
- (c) Write an expression representing the set shown in grey in the following diagram:



- (d) Draw a Venn diagram representing the set $(C \cup (A \cap B)) \setminus (A \cap B \cap C)$

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Terry C. Jones



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