



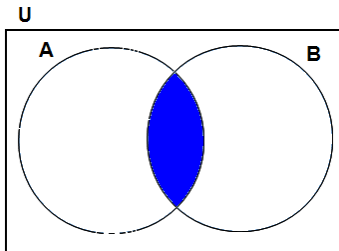
CAMI Mathematics: Grade 10

GRADE 10 CAPS Curriculum

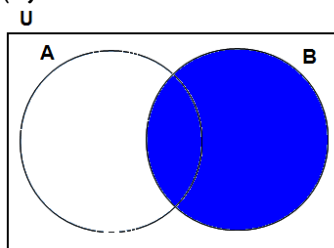
10.6 Probability

1.1 Set notation and Venn diagrams.

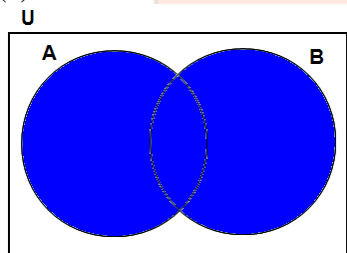
(a)



(b)



(c)



(d) Suppose the universal set $U = \{0; 1; 2; \dots; 10\}$, $A = \{4; 5; 6\}$ and $B = \{6; 7; 8\}$. Determine the elements of the following sets:

- (1) $A \cup B$
- (2) A'
- (3) B'
- (4) $B' \cap A$
- (5) $A \cap B$
- (6) $A' \cup B'$
- (7) $A \cup B'$

1.2 Draw the Venn diagram representing the given set notation.

- (a) $(A \cap B)'$
- (b) $A' \cup B$
- (c) $A \cup B$
- (d) $B' \cap A$
- (e) $(A \cup B)'$

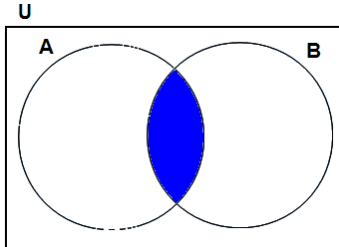


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MEMO

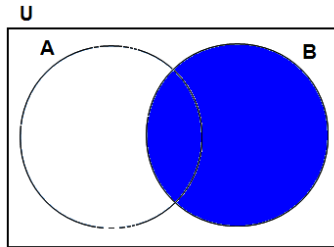
1.1 Set notation and Venn diagrams [10.3.3.1]

(a)



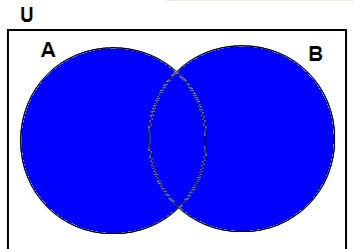
$A \cap B$

(b)



B

(c)



$A \cup B$

(d) $U = \{0; 1; 2; \dots; 10\}$, $A = \{4; 5; 6\}$ and $B = \{6; 7; 8\}$.

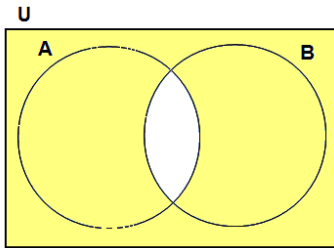
- (1) $A \cup B = \{4; 5; 6; 7; 8\}$
- (2) $A' = \{0; 1; 2; 3; 7; 8; 9; 10\}$
- (3) $B' = \{0; 1; 2; 3; 4; 5; 9; 10\}$
- (4) $B' \cap A = \{4; 5\}$
- (5) $A \cap B = \{6\}$
- (6) $A' \cup B' = \{0; 1; 2; 3; 4; 5; 7; 8; 9; 10\}$
- (7) $A \cup B' = \{0; 1; 2; 3; 4; 5; 6; 9; 10\}$

1.2 Draw the Venn diagram representing the given set notation. [10.3.3.2]

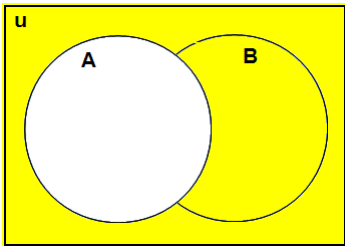


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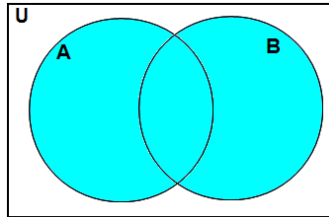
(a) $(A \cap B)'$



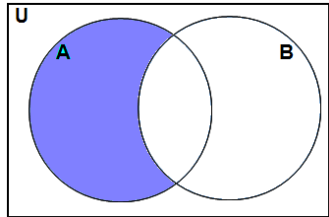
(b) $A' \cup B$



(c) $A \cup B$



(d) $B' \cap A$



(e) $(A \cup B)'$

