

Answers to Concept Quiz 5.3

1. **Properties of set operations.**

Using the following answers:

- (a) De Morgan's Law
- (b) Commutativity
- (c) Distributivity
- (d) Associativity
- (e) None of the above

What are the following set properties?

- (c) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
- (e) $(A^c)^c = A$
- (b) $A \cap B = B \cap A$
- (a) $(A \cap B)^c = A^c \cup B^c$
- (e) $A \cap A^c = \emptyset$
- (d) $A \cup (B \cup C) = (A \cup B) \cup C$
- (c) $(A \cup B) \cap C = (A \cap C) \cup (B \cap C)$