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Exam Assistance Note

5.4in Let A , B , C be three events. Use the basic properties of probabilities to show that

1. (2.5 points) $P(A \cup B) \leq P(A) + P(B)$
2. (2.5 points) $P(A \cup B \cup C) \leq P(A) + P(B) + P(C)$
3. (2.5 points) $P(A \cap B) \geq P(A) + P(B) - 1$
4. (2.5 points) $P(A \cap B \cap C) \geq P(A) + P(B) + P(C) - 2$