Mathematics For Computing
Counting and Probability

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Counting and Probability

A deck of cards contains six cards numbered $1, 2, 3, 4, 5, 6$ and 7. An experiment is carried out in which three cards are chosen from this deck **without** replacement and the result is recorded as an ordered triple, such as $(1,2,4)$, where this result is different from the result $(2,4,1)$.

(i) Let A be the event that the first card is odd and B the event that the last card is a 7. Calculate the number of elements in each of the sets A, B, $A \cap B$ and $A \cup B$.

(ii) Hence calculate the probabilities of A, B, $A \cap B$ and $A \cup B$. [8]

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