## Sets

Challenging problems-I
(1) If $n(A \cap B)=4$ and $n(A)=7$ then find minimum value of $n(B)$
(A) 7
(B) 5
(c) 0
(d) 4
(2) If $A=\{x, y): x+2 y=7\}$
$B=(x, y): x+2 y=8\}$ then $n(A \cap B)=$
(A) 0
(B) 1
(C) $\infty$
(D) More than 1
(3) If $U$ is universal set for $\mathrm{A} \& \mathrm{~B}$ then $B-A^{c}$ is.
(A) $A \cup B$
(B) $(A \cap B)$
(C) $A-B$
(D) $B^{c}$

## Sets

## Challenging Problems-II

1. Draw Venn diagram of $A \Delta B^{c}$
2. Write the following set in roaster form :
$A=\left\{x \mid x\right.$ is a positive integer less than 10 and $2^{x}-1$ is an odd Number $\}$
3. If $a N=\{a x: x \in N\}$, then the set $6 N \cap 8 N$ is equal to-
(1) 8 N
(2) 48 N
(3) 12 N
(4) 24 N
