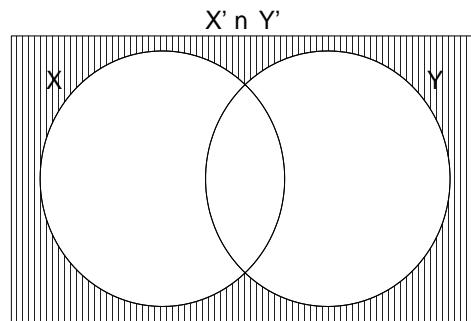
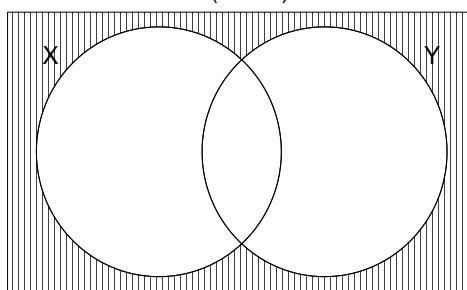


## Study unit 4

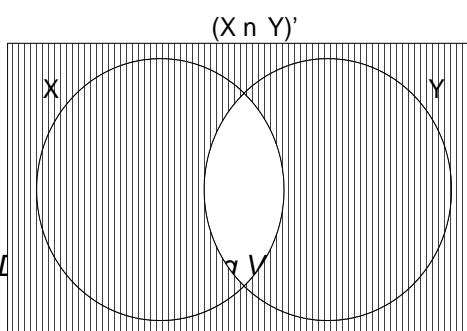
### Activity 4-4

1. Draw the following diagrams:

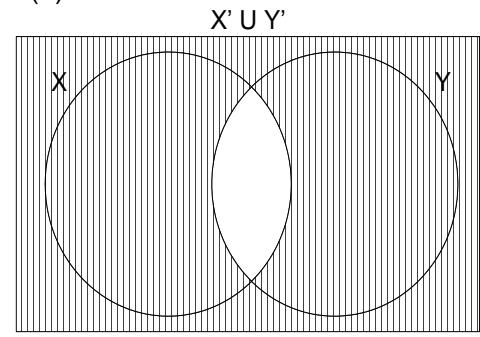
- 1(a)  $(X \cup Y)'$  (First draw a Venn diagram for  $X \cup Y$ .)  
 1(b)  $X' \cap Y'$  (First draw Venn diagrams for  $X'$  and  $Y'$ .)



- 1(c)  $(X \cap Y)'$  (First draw a Venn diagram for  $X \cap Y$ .)



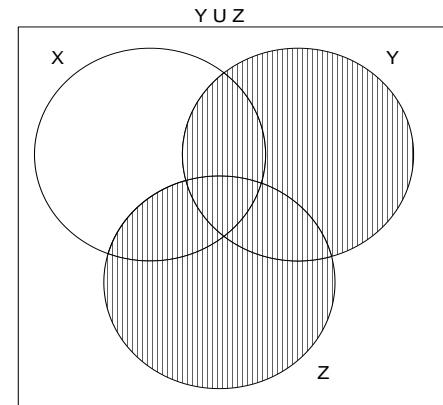
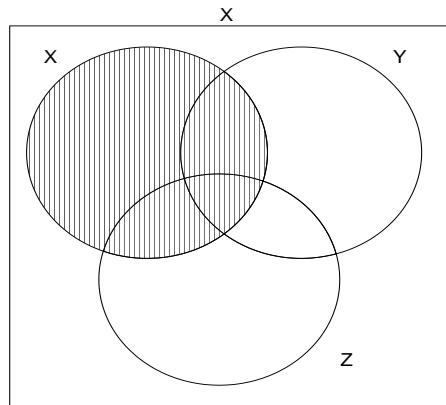
- 1(d)  $X' \cup Y'$



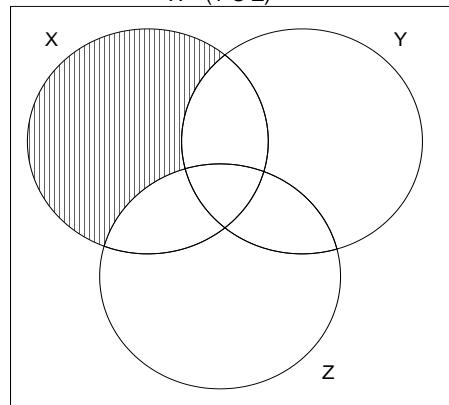
2.

- (a) Note: Draw the universal set for each diagram; draw all three sets in each diagram; name all three sets; provide a subscript for each diagram; colour in only the area relevant to the subscript.

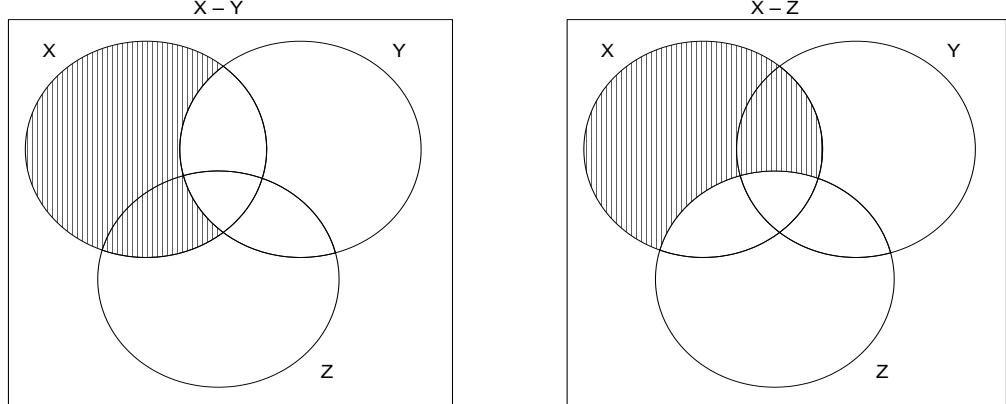
$X - (Y \cup Z)$ :



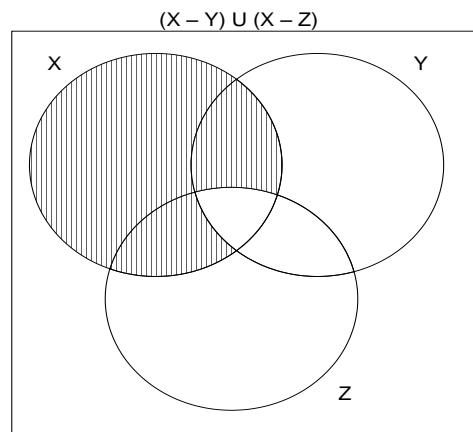
$X - (Y \cup Z)$



2(b)  $(X - Y) \cup (X - Z)$

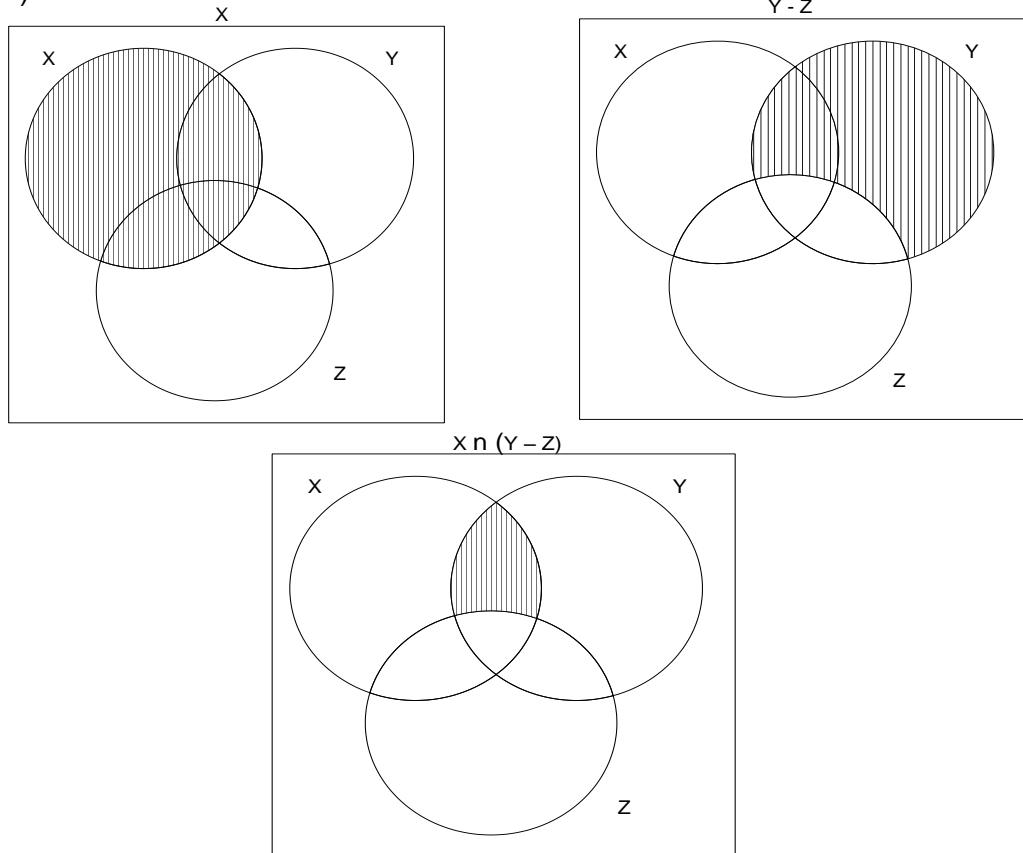


$X - Z$

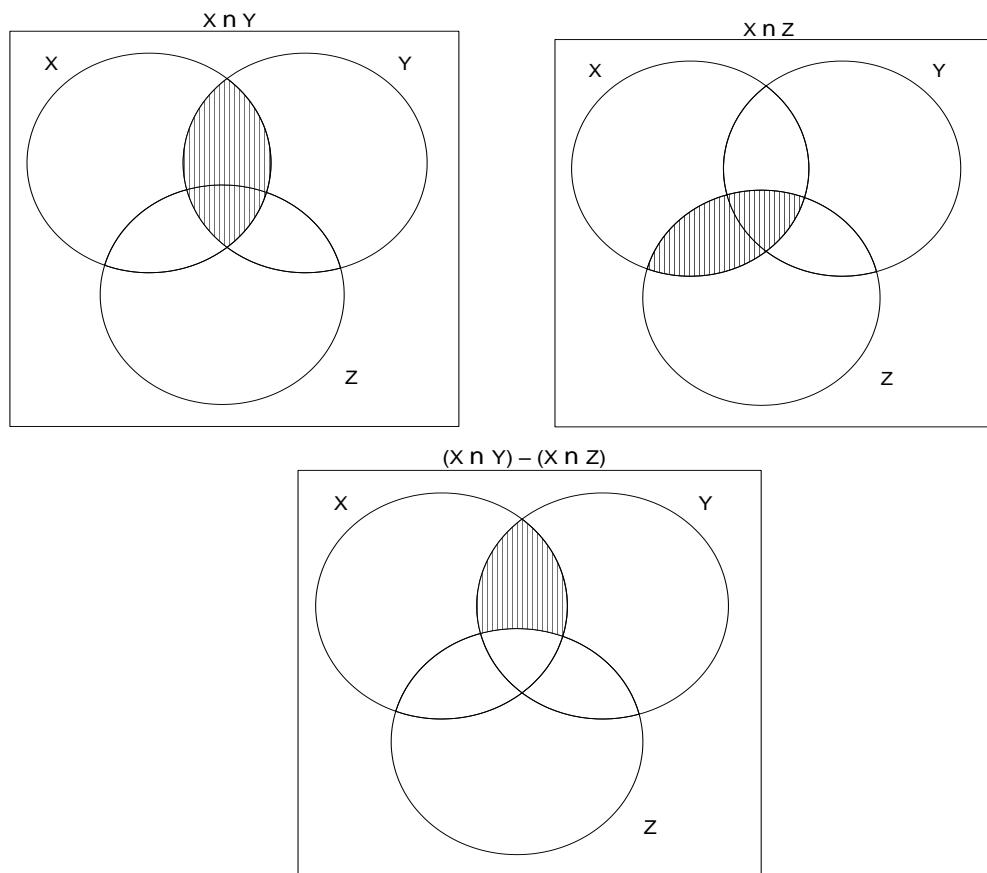


$(X - Y) \cup (X - Z)$

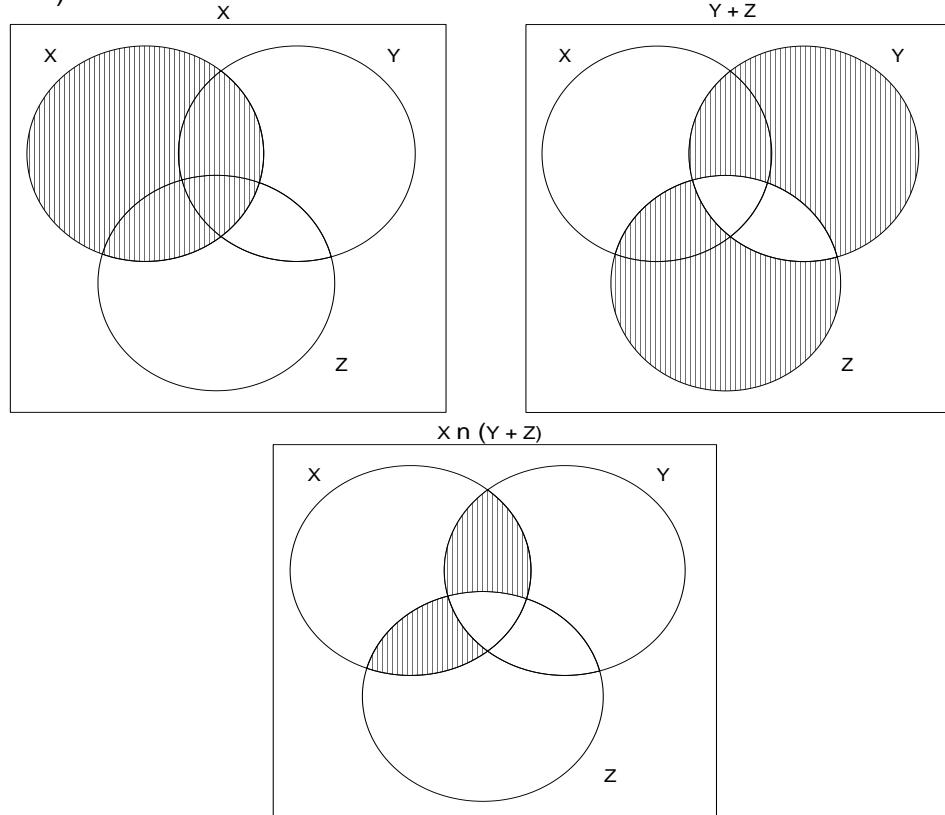
2(c)  $X \cap (Y - Z)$



2(d)  $(X \cap Y) - (X \cap Z)$



2(e)  $X \cap (Y + Z)$



2(f)  $(X \cap Y) + (X \cap Z)$

