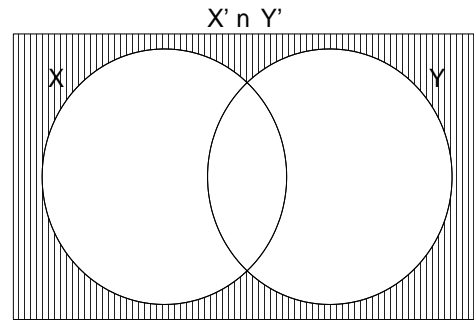
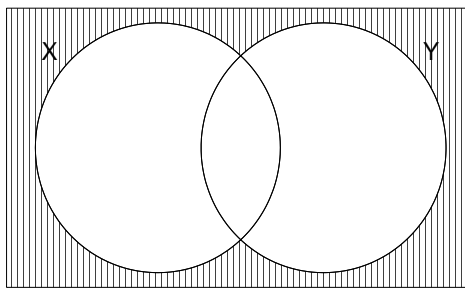


Study unit 4

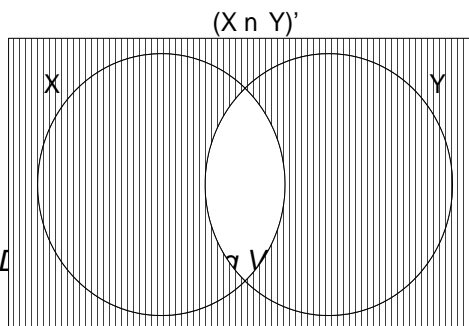
Activity 4-4

1. Draw the following diagrams:

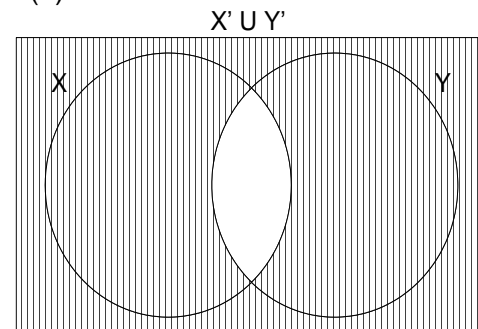
1(a) $(X \cup Y)'$ (First draw a Venn diagram for $X \cup Y$.) 1(b) $X' \cap Y'$ (First draw Venn diagrams for X' and Y' .)



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



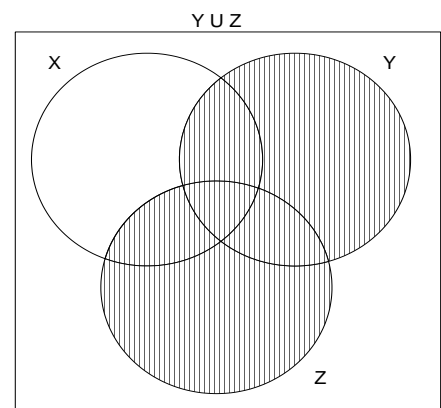
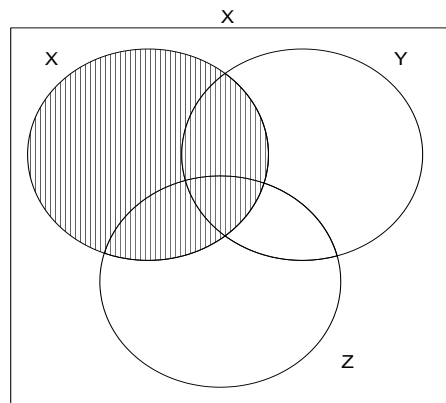
1(d) $X' \cup Y'$



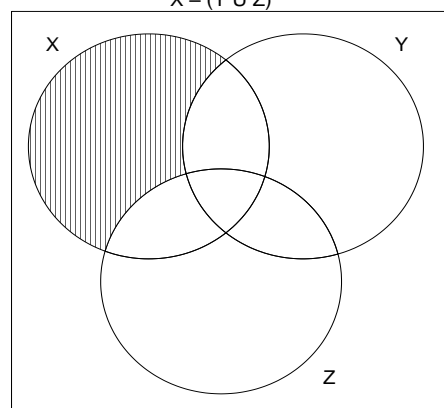
2.

(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.

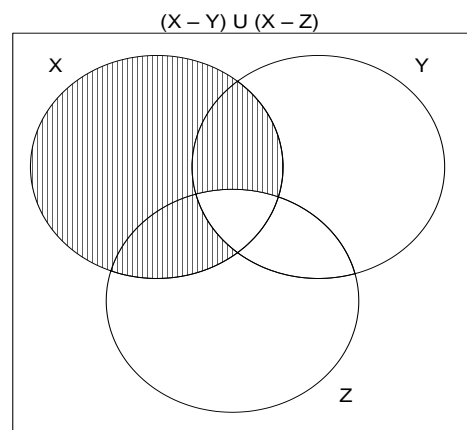
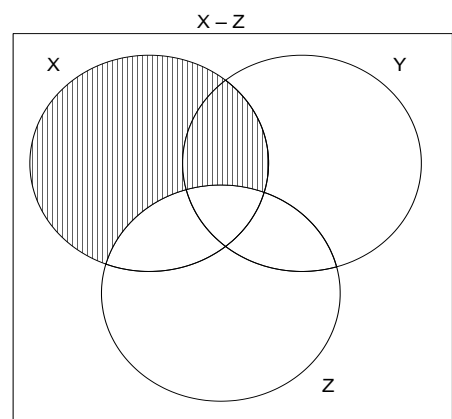
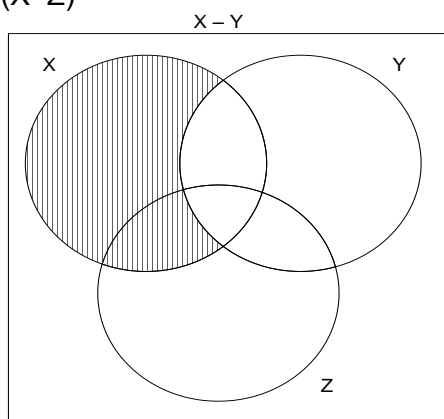
$X - (Y \cup Z)$:



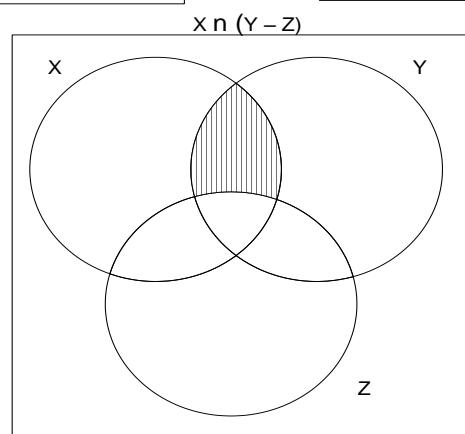
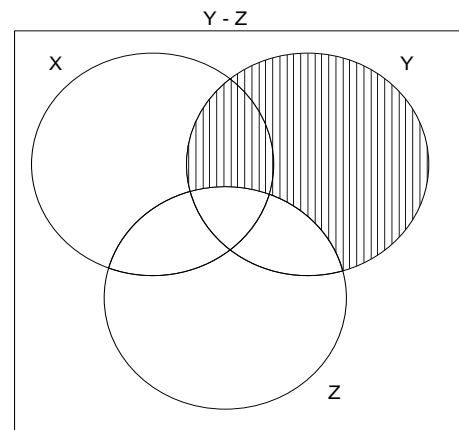
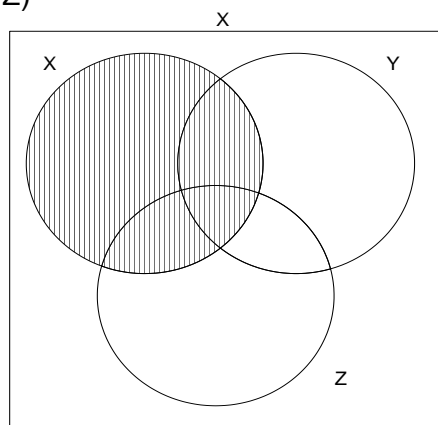
$X - (Y \cup Z)$



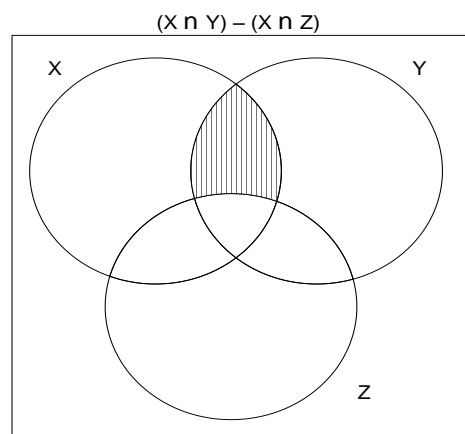
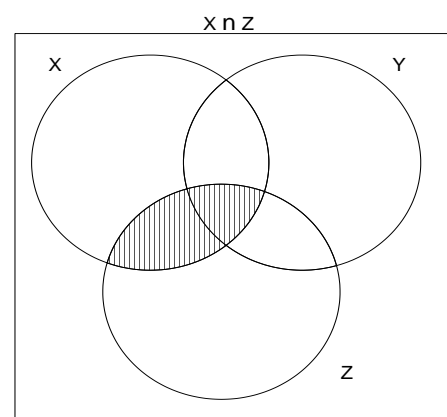
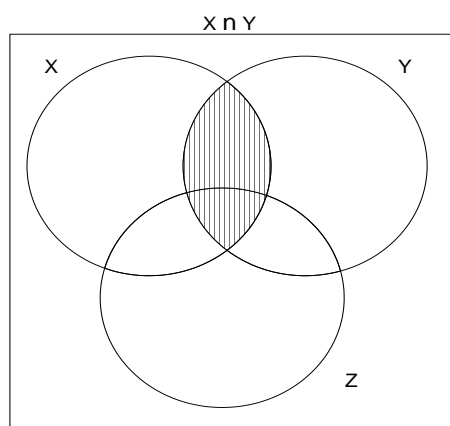
2(b) $(X-Y) \cup (X-Z)$



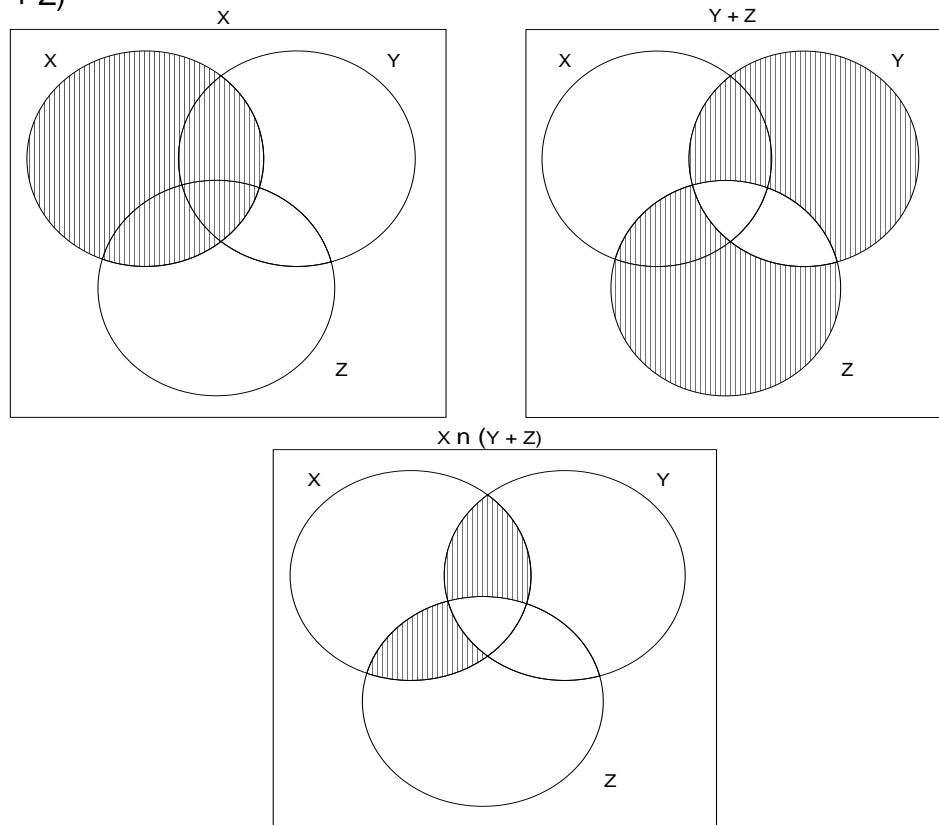
2(c) $X \cap (Y - Z)$



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



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



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

