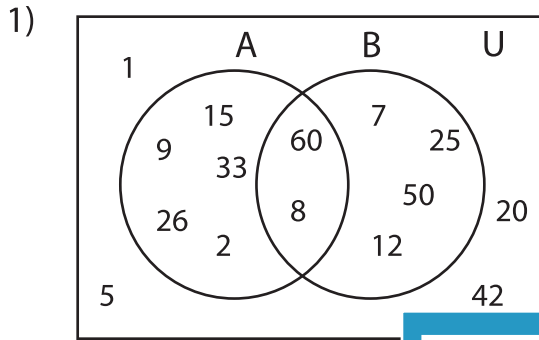## Venn Diagram

L3S1

Perform the below mention boolean algebraic operation for the given set of elements.

1)

A   B   U

1

15   7

9   60   25

33   50

26   8   20

2   12

5   42

i) A U (A − B)   = _____

ii) (A′ − B′)′ U (B′ − A′) = _____

iii) (A′ − B′) − (A ∩ B)   = _____

2)

Grapes   A   B

Lemon   Pear   Bar

Apple

Peach   Ch

_____

_____

_____
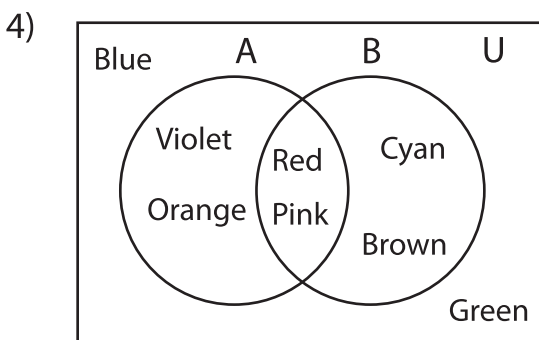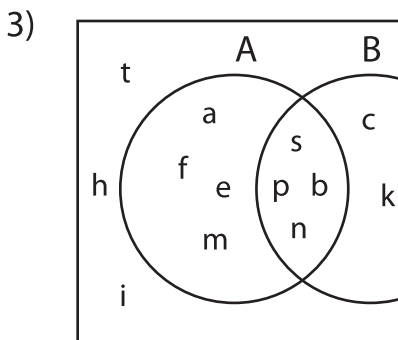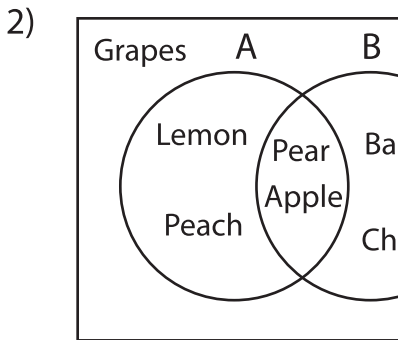
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3)

A   B

t

a   c

h   f   s

e   p   b   k

m   n

i

_____

_____

_____

4)

Blue   A   B   U

Violet   Cyan

Red

Orange   Pink

Brown

Green

i) (B U B′) − (A′ − B)   = _____

ii) (A′ − B)′ ∩ (A − B′) = _____

iii) (A′ ∩ B) U (A ∩ B′) = _____