Venn Diagram

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

1)

Sharpener A   B   U

Eraser   Pen   Pencil
Crayons   Bag   Marker
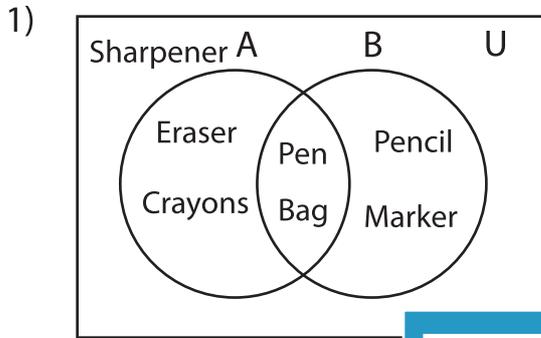
i) $(A - B') \cup (B' - A)$ = _____

ii) $(A \cap B)' - (A' \cap B')$ = _____

iii) $(A' \cup B') \cap (B \cup A)'$ = _____

2)

n   A   B

g   r   z
i   y   t   v
d   o
e   m
s

_____

_____

_____

3)

2   A   B

7   3   30
4   10
17   6   19
11
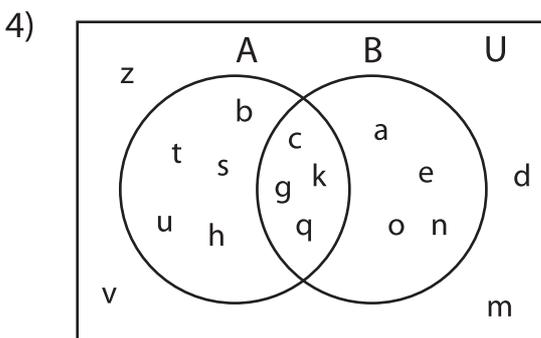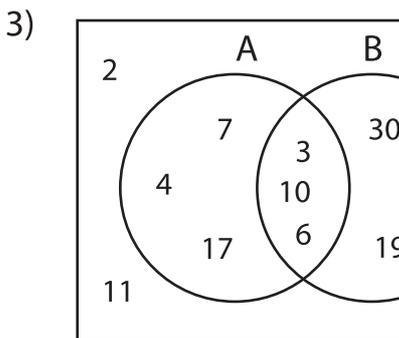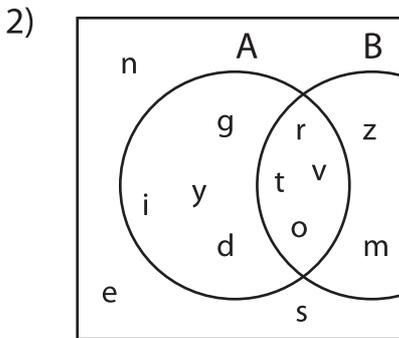
PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

_____

_____

_____

4)

z   A   B   U

b
t   c   a
s   g   k   e   d
u   h   q   o   n
v   m

i) $(B' \cup A) \cap (A - B')$ = _____

ii) $(A - B)' - (A' \cap B)$ = _____

iii) $(B - A') \cup (A' - B)$ = _____