Énoncés

Exercice 1

On considère les trois ensembles U, E et F ci-contre.

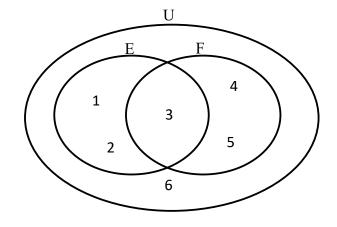
1. Compléter :

$$F = \dots$$

$$E \cap F = \dots$$

$$E \cup F = ...$$

$$C_U E = \dots$$



2. Compléter avec les symboles appropriés.

$$6 \dots E \cup F$$

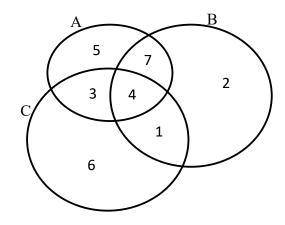
$$\{1;3;5\}...E \cap F$$

$$4 \; ... \; C_U \; E$$

Exercice 2

Exprimer les ensembles suivants uniquement en fonction des ensembles A, B et C.

- **a]** {3;4}
- **b]** {4}
- **c]** {1;2;3;4;5;6;7}
- **d]** {1;3;4;5;7}
- **e]** {2;7}
- **f]** {1;4;7}



Corrigés

Exercice 1

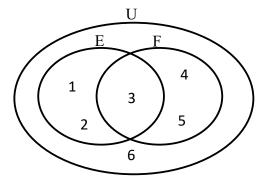
1.

$$F = {3;4;5}$$

$$E \cap F = \{3\}$$

$$E \cup F = \{1; 2; 3; 4; 5\}$$

$$C_U E = \{ 6 \}$$



2.

$$1 \in E$$

$$\emptyset \subset U$$

$$6 \notin E \cup F$$

$$\{\, \mathbf{3} \; ; \, \mathbf{4} \,\} \subset F$$

$$\{1;3;5\}\not\subset E\cap F$$

$$4\in C_U\, E$$

Exercice 2

a]
$$\{3;4\} = A \cap C$$

b]
$$\{4\} = A \cap B \cap C$$

c]
$$\{1;2;3;4;5;6;7\} = A \cup B \cup C$$

d]
$$\{1;3;4;5;7\} = A \cup (B \cap C)$$

e]
$$\{2;7\} = C_B (B \cap C)$$

f]
$$\{1;4;7\} = B \cap (A \cup C)$$

