

1. Given two sets $B=\{4\}$ and $A=\{-3, 3, -1, 5, 2, 0, 9, -2, 8\}$,
find:

- (1) $B \cap A$
- (2) $B \cup A$
- (3) $B \setminus A$
- (4) $A \setminus B$

Illustrate your answers with Venn diagrams.

2. Given two sets $E=\{3, 5, 9, 8\}$ and $D=\{-3, 2, 8\}$,
find:

- (1) $E \cap D$
- (2) $E \cup D$
- (3) $E \setminus D$
- (4) $D \setminus E$

Illustrate your answers with Venn diagrams.

3. Given two sets $C=\{-3, 5, 2, 0, 9, 8, 1\}$ and $A=\{7, 0, 9, -2, 8, 6\}$,
find:

- (1) $C \cap A$
- (2) $C \cup A$
- (3) $C \setminus A$
- (4) $A \setminus C$

Illustrate your answers with Venn diagrams.

4. Given two sets $F=\{3, 5, 0, 9, 4\}$ and $A=\{-3, 5, 2, 8, 6\}$,
find:

- (1) $F \cap A$
- (2) $F \cup A$
- (3) $F \setminus A$
- (4) $A \setminus F$

Illustrate your answers with Venn diagrams.

5. Given two sets $D=\{-3, 5, 0, 9, 4, -2, 1\}$ and $G=\{3, -1, 5, 7\}$,
find:

- (1) $D \cap G$
- (2) $D \cup G$
- (3) $D \setminus G$
- (4) $G \setminus D$

Illustrate your answers with Venn diagrams.