

# Algebra IIa

## 1-1 Day 1

### Sets and Set Notation

Set -

Set notation -

Subset -

$\in$  -

$\emptyset$  -

Given:  $A = \{ 1, 2, 4, 8, 11, 17, 35 \}$

Label each as true or false.

1)  $7 \in A$

2)  $\{ 1, 8, 11 \}$  is a subset of  $A$ .

3)  $\{\}$  is the same as  $\emptyset$ .

4)  $|-2| \in A$

5)  $\{ 4, 17, -35 \}$  is a subset of  $A$ .

Union -

Given:  $A = \{ 1, 3, 5, 7 \}$      $B = \{ 2, 4, 6, 8 \}$

$$A \cup B =$$

Intersection -

Given:  $A = \{ 1, 3, 5, 7 \}$      $B = \{ 1, 5, 9, 13 \}$

$$A \cap B =$$