

Name: \_\_\_\_\_

Section: \_\_\_\_\_

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**Quiz on 6.1: Sets**

If  $A = \{1, 2, 3, 4, 5\}$  and  $B = \{2, 4, 6\}$  then what are the elements of:

$$A \cup B$$

$$A \cap B$$

$$A - B$$

$$B - A$$

2. Explain why or give an example to show why not:

Does  $X \cup Y$  always equal  $Y \cup X$ ?

Does  $X \cap Y$  always equal  $Y \cap X$ ?

Does  $X - Y$  always equal  $Y - X$ ?

Does  $X - Y$  ever equal  $Y - X$ ?

Does  $X - Y$  always equal  $X \cap Y$ ?

Does  $X - Y$  ever equal  $X \cap Y$ ?