MATH	422
------	-----

Week 6 Quiz

Name_			
Date			

Directions: Answer each question to the best of your ability. **Show your reasoning** and/or process used to answer the question(s) where it is appropriate. A calculator will NOT be necessary for this quiz. There are 5 questions.

Section 7.1

1. (3 pts)

Let $A = \{2, 3, 6, 8, 9\}$ and $B = \{2, 8, 10\}$. Indicate if each statement is true or false.

 $2 \in A$

 $6 \in A \cap B$

A. True

A. True

B. False

B. False

 $B \subset A$

- A. True
- B. False

(3 pts each) You may want to make a Venn Diagram to help with this one:

Let *S* be the universal set, where:

$$S = \{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20\}$$

Let sets *A* and *B* be subsets of *S* , where:

Set
$$A = \{1,3,5,9,11,15,17,19\}$$

Set
$$B = \{2,3,4,5,6,17,18,19,20\}$$

Find the following: Please use { } when asked to list elements of a set

- 2. LIST the elements in the set ($A \cup B$):
- 3. LIST the elements in the set ($A \cap B$):
- 4. LIST the elements in the set ($A \cap B^c$):
- 5. LIST the elements in the set ($B \cap A^c$):

License info at: https://www.myopenmath.com/course/showlicense.php?id=17424-6699-6698-6701-6705-17421-17420-6707