Math 112 - Quiz 5

September 6, 2018

Name _	Key		
	J	Score	

Show all work to receive full credit. Supply explanations when necessary. This quiz is worth 5 points. You must work individually.

1. (1 point) If U is the set of natural numbers and $A = \{4, 6, 8, 10, 12, \dots\}$, find A'.

2. (1 point) Let $U = \{2, 3, 5, 7, 9, 11, 13, 17, 19\}$ and $D = \{2, 3, 5\}$. Find D'.

- 3. (3 points) Let $U = \{11, 12, 13, 14, 15, 16, 17, 18, 19, 20\}$, $A = \{14, 15, 16, 17\}$, and $C = \{12, 14, 15, 19, 20\}$. Find each of the following.
 - (a) $A \cup C$

(b) $(A \cup C)'$

(c) $A' \cup C'$

$$A' = \{ 11, 13, 13, 18, 19, 20 \}$$

$$C' = \{ 11, 13, 16, 17, 18 \}$$