NAME:

- 1. (10 points) Define the sets $A = \{3,6,9\}$, $B = \{2,4,6,8,10\}$, and $C = \{1,2\}$. In this problem all of these sets are considered subsets of the universal set $\mathcal{U} = \{1,2,3,4,5,6,7,8,9,10\}$. Find the following sets.
 - (a) $A \cup C$

(b) $A \cap C$

(c) B'

2. (10 points) Suppose that you draw one ball from an urn containing 6 white balls, 4 red balls, and 2 green balls.
(a) What is the probability that you draw a green ball?
(b) What is the probability that you draw a white ball?