

Name:

MATH 1113 – Mathematics for General Education  
Quiz 4 – Ch 2.2

Instructions: Print out this page and turn it in at the beginning of class. Circle your final answers. Show all work. Answers with no work shown or illegible work will receive no credit.

1. For this problem, consider the sets below, where  $U$  is the universal set:

$$U = \{1, 2, 3, 4, 5, 6\}$$

$$A = \{1, 3, 5\}$$

$$B = \{1, 2, 4, 6\}$$

$$C = \{1, 2, 5, 6\}$$

Determine the following sets (that is, write the sets using the roster method). Then draw a Venn diagram with the region representing the set shaded.

a.)  $A'$

b.)  $A \cup C$

c.)  $A \cup C'$

d.)  $A \cap B$

e.)  $A \cap B'$

f.)  $A' \cup (B \cap C')$