Math 200 - Quiz 6

Name _____

October 13, 2010

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) Give an example of a set that is NOT closed under addition. Justify your answer.

2. (1 point) Use the comparison model to model $6 - 4$.

3. (1 point) State the whole number addition property that justifies each of the following. Briefly explain your reasoning.

   (a) $(5 + 3) + 7 = (3 + 5) + 7$

   (b) $(3 + 2) + (4 + 1) = (4 + 1) + (3 + 2)$

4. (1 point) Give an example to show that the properties of addition are not necessarily properties of subtraction.

5. (1 point) Use one of the strategies for mastering basic addition facts to compute $8 + 5$. Show the work or explain your reasoning.

6. (1 pt ex cred) Even though addition is a binary operation, we can write 5+7+2 without ambiguity. Which property of addition allows us to do this? Briefly explain.