Math 141 – Spring 2004   Name: _____
Quiz #2
Section 2.1   15   Seat: _____
                          _____
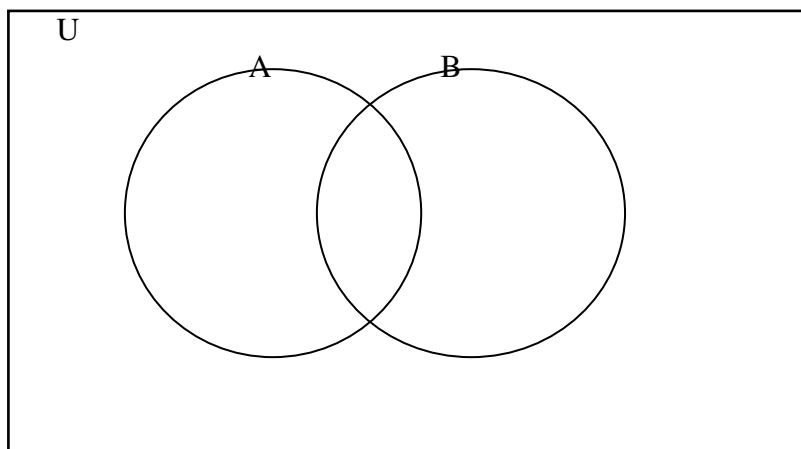
1. Given the sets A = {m, a, t, h}, B = {a, e, i, o, u}, and
   the Universal set U = {x | x ∈ English alphabet}:
   4pts
   a. Fill in the Venn diagram to represent these sets by listing the elements in the appropriate part of
      each set.

   1pt   1pt _
   b. A ∩ B = {   }   d. B = {   }

   1pt   1pt
   c. B − A = {   }   e. How many elements are in the set A X B ? _____
   3pt
2. List all the subsets of set {1, 2, 3}

   4pts
3. Shade the Venn diagram to illustrate the set: (Clearly indicate your answer by shading.)

       _   _
   a. Y   b. [(X ∩ Y) ∪ Z].