Directions: Using the diagram below and your Earth Science Reference Tables, answer questions 1 through 5.

1. Rocks are classified as igneous, sedimentary, or metamorphic based primarily on their
   a. texture  
   b. crystal or grain size  
   c. method of formation  
   d. mineral composition

2. Which statement about the rock cycle is not true?
   a. Cementation is a process that leads to sedimentary rocks.  
   b. When heat is applied to a rock and it melts, it may form a metamorphic rock.  
   c. A sedimentary rock in the future may change into another type of sedimentary rock.  
   d. Solidifications is always needed to form an igneous rock.

3. Identify metamorphic rock y?

4. How does the igneous rock granite form?

5. Identify sedimentary rock x?