1. (1 pt.)

   - This *quick check* is **closed book, notes, etc.**
   - Use the **classroom and textbook conventions** and terminology.

   Read the above carefully; then write your name below:

   Fill in the blanks **as precisely as possible** based on the assigned reading.

2. (2 pts.) In a pairing heap, what is the maximum number of children that a node may have?

3. (2 pts.) The pairing heap is stored by using a _____ representation.

4. (2 pts.) In a pairing heap with n nodes, a *deleteMin* operation's *worst-case* running time is bounded by _____ [give the tightest bound you can].

5. (3 pt.) Circle pairing-heap operations (of those below) that require *constant worst-case time*.

   findMin   deleteMin   insert   decreaseKey   merge