

4. In Java, we can work with Arrays, or we can work with ArrayLists (as described in Section 7.2)
- a. (5 pts) Write a line of code that declares and initializes an Array of 5 objects of type Complex (Assume you have a Complex class defined, and make this be a local variable in a method.)

 - b. (5 pts) Write a line of code that declares and initializes an ArrayList of 5 objects of type Complex (Assume you have a Complex class defined, and make this be a local variable in a method.)
5. (5 pts) In Section 7.2, the author suggests that there are (at least) two advantages of working with an ArrayList of Complex objects rather than an array of Complex objects. What are these?
- a. (2 pts)

 - b. (2 pts)
6. (5 pts) In Section 7.3, the author points out at least one situation where you should consider using a regular array rather than an ArrayList.
- a. (2 pts) What is this situation?

 - b. (2 pts) What is the reason for using an Array in this situation rather than an ArrayList?