Algebra and Representation HW #8 Patterns and Recursive Formulas

1. Extend the pattern {1, 3, 6, 10, 15, 21, 28, 36...} for 3 more terms. Describe how you found these terms.

- 2. Describe the pattern of the dots below.
 - a. How many dots are there in each of these objects?
 - b. If we know there are 49 dots in the 7th object, how many dots would there be in the 8th object?
 - c. How did you figure this out?
 - d. Describe in words how to find the number of dots in the next object given the number of dots in the current object.
 - e. Now write the statement you created in Part (d) using symbols.

