**Chapter 7 wrapup, Section 8.1**

**Activity 1 – For each of the following, what is f()?**

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**Activity 2**

For each of the previous what is the algorithm’s Big-Oh, Theta, and Omega?

**Activity 3**

* Sequence
* Arithmetic Sequence
* Geometric Sequence
* Increasing Sequence
* Decreasing Sequence
* Non-Increasing/Non-Decreasing Sequence
* Common Difference
* Common Ratio
* Factor

**Activity 4**

Write the first six terms of each of the following sequences:

1. Arithmetic, I0 = 3, Factor = 2
2. Geometric, I0 = 3, Factor = 2
3. Arithmetic, I0 = 4, Factor = -1.5
4. Geometric, I0 = 2, Factor = - 2