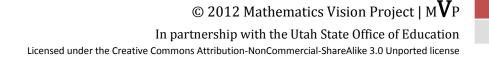
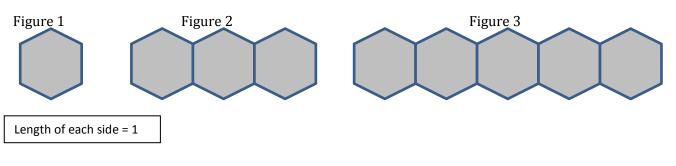


In each of the problems below I share some of the information that I know about a sequence. Your job is to add all the things that you know about the sequence from the information that I have given. Depending on the sequence, some of things you may be able to figure out for the sequence are: a table, a graph, an explicit equation, a recursive equation, the constant ratio or constant difference between consecutive terms, any terms that are missing, the type of sequence, or a story context. Try to find as many as you can for each sequence, but you must have at least 4 things for each.

- 1. I know that: the recursive formula for the sequence is f(1) = -12, f(n) = f(n-1) + 4 What do you know?
- 2. I know that: the first 5 terms of the sequence are 0, -6, -12, -18, -24... What do you know?
- 3. I know that: the explicit formula for the sequence is $f(n) = -10(3)^n$ What do you know?
- 4. I know that: The first 4 terms of the sequence are 2, 3, 4.5, 6.75 ... What do you know?
- 5. I know that: the sequence is arithmetic and f(3) = 10 and f(7) = 26 What do you know?





6. I know that: the sequence is a model for the perimeter of the following figures:

What do you know?

- 7. I know that: it is a sequence where $a_1 = 5$ and the constant ratio between terms is -2. What do you know?
- I know that: the sequence models the value of a car that originally cost \$26,500, but loses 10% of its value each year.
 What do you know?
- 9. I know that: the first term of the sequence is -2, and the fifth term is $-\frac{1}{8}$. What do you know?
- 10. I know that: a graph of the sequence is: What do you know?

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