### Lesson 8 Practice Problems

1. A sequence is defined by for .
	1. Explain why .
	2. Explain why .
	3. Complete the expression: . Explain your reasoning.
2. A sequence is defined by  for . Write a definition for the term of the sequence.
3. Here is the recursive definition of a sequence: for .
	1. Find the first 5 terms of the sequence.
	2. Graph the value of the term as a function of the term number.
	3. Is the sequence arithmetic, geometric, or neither? Explain how you know.
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* (From Unit 1, Lesson 7.)
1. Here is a graph of sequence . Define recursively using function notation.
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* (From Unit 1, Lesson 6.)
1. Write the first five terms of each sequence. Determine whether each sequence is arithmetic, geometric, or neither.
	1. for .
	2. for .
	3. for .
	4. for .
* (From Unit 1, Lesson 5.)
1. Here is the graph of a sequence:
	1. Is this sequence arithmetic or geometric? Explain how you know.
	2. List at least the first five terms of the sequence.
	3. Write a recursive definition of the sequence.
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* (From Unit 1, Lesson 7.)



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