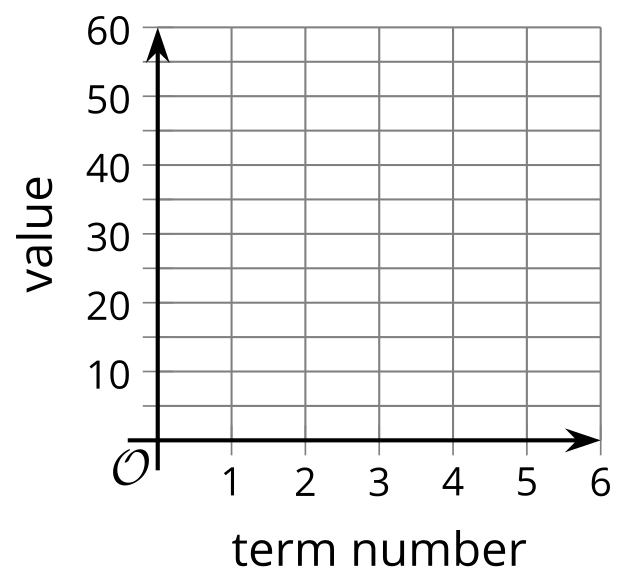
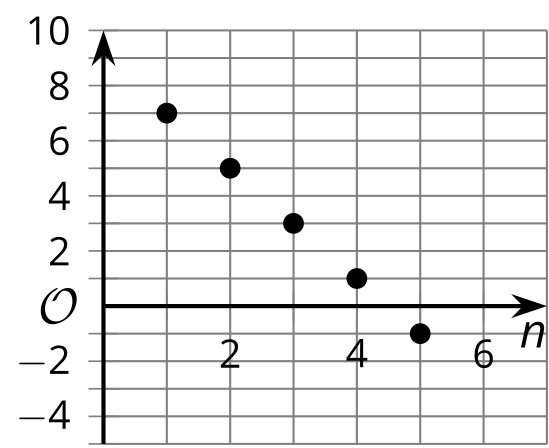
### Lesson 8 Practice Problems

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.

* 
* (From Unit 1, Lesson 7.)

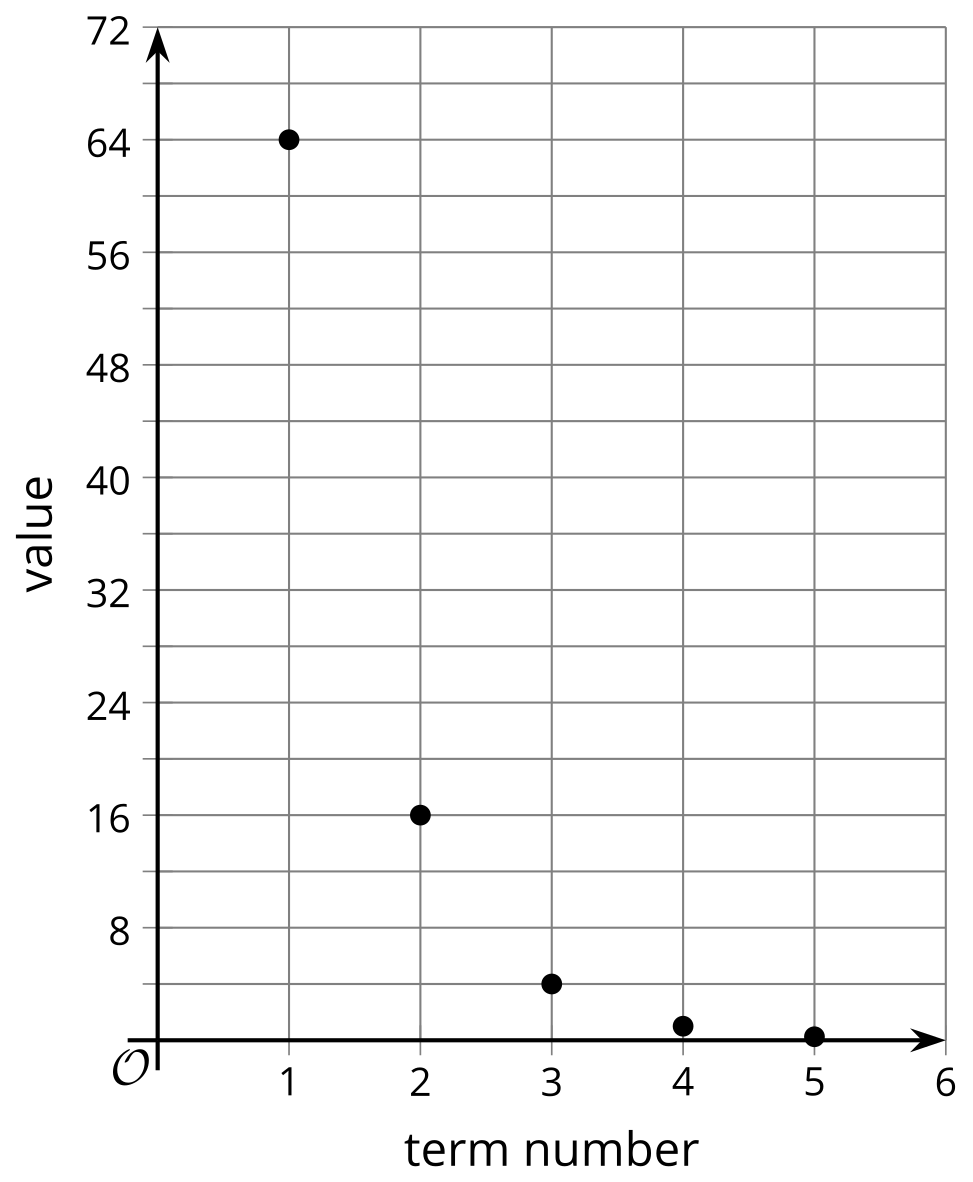
1. Here is a graph of sequence . Define recursively using function notation.

* 
* (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.

* 
* (From Unit 1, Lesson 7.)



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