## UNIT 2 • REASONING WITH LINEAR EQUATIONS AND INEQUALITIES

Lesson 9: Sequences As Functions

## Scaffolded Practice 2.9.1

## Example 1

What is the fourth term of the sequence given by the formula $a_{n}=a_{n-1}+5$, where $a_{n}$ is the value of the term, $n$ is the term number, and $a_{1}=2$ ?

1. Determine whether the sequence is explicit or recursive.
2. Use the given formula to find the first 4 terms of the sequence.

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## Example 2

Find the missing terms in the sequence using recursion.

$$
A=\left\{8,13,18,23, a_{5}, a_{6}, a_{7}\right\}
$$

## Example 3

Find the missing terms in the sequence using recursion.

$$
B=\left\{6,18,54,162, b_{5}, b_{6}, 4374, b_{8}\right\}
$$

