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.

$$A = \{8, 13, 18, 23, a_5, a_6, a_7\}$$

Example 3

Find the missing terms in the sequence using recursion.

$$B = \{6, 18, 54, 162, b_5, b_6, 4374, b_8\}$$