

UNIT 2 • REASONING WITH LINEAR EQUATIONS AND INEQUALITIES**Lesson 9: Sequences As Functions****Practice 2.9.1: Sequences As Functions****A**

Use what you know about sequences to complete each problem.

1. What is the fourth term in the sequence given by the formula $a_n = 10n - 12$?
2. What is the fourth term in the sequence given by the formula $a_n = a_{n-1} + 3$ if $a_1 = -4$?
3. Graph the first 5 terms of the sequence given by the formula $a_n = 5n - 7$.
4. Graph the first 5 terms of the sequence given by the formula $a_n = 2n - 2$.
5. What is the third term in the sequence given by the formula $a_n = a_{n-1} + 4$ if $a_1 = 2$?
6. What is the fourth term in the sequence given by the formula $a_n = 13 - 2n$?
7. Complete and graph the sequence: 2, 6, 10, 14, a_5 , 22.
8. Complete and graph the sequence: 13, 21, 29, 37, a_5 , a_6 .
9. A radio show breaks for news every 30 minutes. After every fourth news report, the newscaster reads the daily sports highlights. If the radio show began at 12:01 P.M. and the first news report was read at 12:31 P.M., at what time will the daily sports highlights be read?
10. Water stations are set up periodically along a marathon route. The water stations are set up every 3.5 miles. If the first station is at the 5-mile mark, at what mile mark will the fifth water station be?