

UNIT 3 • LINEAR AND EXPONENTIAL FUNCTIONS**Lesson 2: Sequences As Functions****Practice 3.2.1: Sequences As Functions**

Use what you know about sequences to complete each problem.

1. What is the fourth term in the sequence given by $a_n = 10n - 12$?
2. What is the fourth term in the sequence given by $a_n = 5n + 3$?
3. Graph the first 5 terms of the sequence given by $a_n = 5n - 7$.
4. Graph the first 5 terms of the sequence given by $a_n = 2^{n-1} - 2$.
5. What is the third term in the sequence given by $a_n = 3(5)^{n-1}$?
6. What is the fourth term in the sequence given by $a_n = 13(2)^{n-1}$?
7. Complete and graph the sequence: 2, 6, 18, 54, a_5 , 486.
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 through a marathon route. After the first water station, the rest of 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?