

Section 3.5: Arithmetic Sequences
Practice Worksheet

Name: _____

Determine whether each sequence is an arithmetic sequence.

1. $0, 2, 5, 9, 14, \dots$

2. $37, 34, 31, 28, \dots$

3. $-\frac{1}{3}, -\frac{17}{6}, -\frac{16}{3}, \dots$

Find the next three terms of each arithmetic sequence.

4. $10, 13, 16, 19, \dots$

5. $-14, -19, -24, \dots$

6. $\frac{3}{5}, \frac{7}{10}, \frac{4}{5}, \dots$

_____, _____, _____

_____, _____, _____

_____, _____, _____

Use the arithmetic sequence formula to help solve each problem.

7. $3, 7, 11, 15, \dots$

8. $-5, -7, -9, \dots$

9. $\frac{2}{9}, \frac{5}{9}, \frac{8}{9}, \dots$

 38th term

 71st term

 24th term

10. An arithmetic sequence has a common difference of -4 and its 37th term is 10. Find the first term.

11. How many total terms are there in the following sequence?

$7, 10, 13, \dots, 391, 394$

