

Determine whether each sequence is an arithmetic sequence. If it is, state the common difference.

1. 0, 2, 5, 9, 14, ...

2. 37, 34, 31, 28, ...

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, ...

5. -14, -19, -24, ...

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

Use the explicit formula to help solve each problem. ($a_n = a_1 + d(n-1)$)

7. 3, 7, 11, 15, ...

8. -5, -7, -9, ...

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

38th term

71st term

24th term

*10. Extra Credit!

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