

Arithmetic Sequences

Determine whether each sequence appears to be an arithmetic sequence. If so, name the common difference (d) and the next three terms.

1. 2, 8, 14, 20, ...

2. 2.1, 1.4, 0.7, 0, ...

3. 1, 1, 2, 3, ...

4. 0.1, 0.3, 0.9, 2.7, ...

5. -1, 10, -100, 1100, ...

6. 0, -2, -4, -6, ...

Find the common difference (d) for each arithmetic sequence.

7. 0, 6, 12, 18, ...

8. 45, 32, 19, 6, ...

9. 107, 105, 103, 101, ...

10. 7.9, 5.7, 3.5, 1.3, ...

11. $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \dots$

12. 4.25, 4.32, 4.39, 4.46, ...

Find the next four terms in each arithmetic sequence.

13. -4, -7, -10, -13, ...

14. 14, 21, 28, 35, ...

15. 505, 512, 519, 526, ...

16. 1.8, 1.3, 0.8, 0.3, ...

17. 25, 42, 59, 76, ...

18. 64, 53, 42, 31, ...

Find the missing term in the arithmetic sequence.

19. -30, -21, _____, -3, 6

20. $\frac{1}{8}, \frac{3}{8}, \frac{5}{8}, \dots, 1\frac{1}{8}$