

11-1 Skills Practice

Arithmetic Sequences

Find the next four terms of each arithmetic sequence.

1. 7, 11, 15, ...

2. -10, -5, 0, ...

3. 101, 202, 303, ...

4. 15, 7, -1, ...

5. -67, -60, -53, ...

6. -12, -15, -18, ...

Find the first five terms of each arithmetic sequence described.

7. $a_1 = 6, d = 9$

8. $a_1 = 27, d = 4$

9. $a_1 = -12, d = 5$

10. $a_1 = 93, d = -15$

11. $a_1 = -64, d = 11$

12. $a_1 = -47, d = -20$

Find the indicated term of each arithmetic sequence.

13. $a_1 = 2, d = 6, n = 12$

14. $a_1 = 18, d = 2, n = 8$

15. $a_1 = 23, d = 5, n = 23$

16. $a_1 = 15, d = -1, n = 25$

17. a_{31} for 34, 38, 42, ...

18. a_{42} for 27, 30, 33, ...

Complete the statement for each arithmetic sequence.

19. 55 is the ?th term of 4, 7, 10, ...

20. 163 is the ?th term of -5, 2, 9, ...

Write an equation for the n th term of each arithmetic sequence.

21. 4, 7, 10, 13, ...

22. -1, 1, 3, 5, ...

23. -1, 3, 7, 11, ...

24. 7, 2, -3, -8, ...

Find the arithmetic means in each sequence.

25. 6, ?, ?, ?, 38

26. 63, ?, ?, ?, 147