

11-1**Practice: Skills**
Sequences

State whether each sequence is *arithmetic*, *geometric*, or *neither*. If it is arithmetic or geometric, state the common difference or common ratio. Write the next three terms of the sequence.

1. 1, 5, 9, 13, 17, ...

2. -3, -6, -12, -24, -48, ...

3. 2, 5, 8, 11, 14, ...

4. 1, 6, 16, 31, 51, ...

5. 3, 7, 11, 15, 19, ...

6. 4, 9, 14, 19, 24, ...

7. 1, -3, 9, -27, 81, ...

8. 1, 2, 1, 2, 1, ...

9. 7, 4, 1, -2, -5, ...

10. -4, 4, -4, 4, -4, ...

11. -5, 10, -20, 40, -80, ...

12. 22, 25, 28, 31, 34, ...

13. 0, -2, -5, -9, -14, ...

14. 4, 12, 36, 108, 324, ...

15. -2, 10, -50, 250, -1,250, ...

16. -80, -76, -72, -68, -64, ...

17. 448, 224, 112, 56, 28, ...

18. 2, 2, 4, 12, 48, ...

19. $3, 6\frac{1}{2}, 10, 13\frac{1}{2}, 17, \dots$

20. 81, 27, 9, 3, 1, ...