

Practice 11-1**Mathematical Patterns**

Write a recursive formula for each sequence. Then find the next term.

1. $-14, -8, -2, 4, 10, \dots$ 2. $6, 5.7, 5.4, 5.1, 4.8, \dots$ 3. $1, -2, 4, -8, 16, \dots$

4. $1, 3, 9, 27, \dots$ 5. $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$ 6. $\frac{2}{3}, 1, 1\frac{1}{3}, 1\frac{2}{3}, 2, \dots$

7. $36, 39, 42, 45, 48, \dots$ 8. $36, 30, 24, 18, 12, \dots$ 9. $9.6, 4.8, 2.4, 1.2, 0.6, \dots$

Describe each pattern formed. Find the next three terms.

19. $1, 2, 4, 8, 16, \dots$ 20. $44, 39, 34, 29, 24, \dots$ 21. $0.7, 0.8, 0.9, 1.0, 1.1, \dots$

22. $4, 11, 18, 25, 32, \dots$ 23. $1\frac{1}{4}, 2\frac{1}{2}, 5, 10, 20, \dots$ 24. $-6, -9, -12, -15, -18, \dots$