

LESSON

4-6

Practice B**Arithmetic Sequences**

Determine whether each sequence is an arithmetic sequence.
If so, find the common difference and the next three terms.

1. $-10, -7, -4, -1, \dots$

2. $0, 1.5, 3, 4.5, \dots$

3. $5, 8, 12, 17, \dots$

4. $-20, -20.5, -21, -21.5, \dots$

Find the indicated term of each arithmetic sequence.

5. 28th term: $0, -4, -8, -12, \dots$

6. 15th term: $2, 3.5, 5, 6.5, \dots$

7. 37th term: $a_1 = -3; d = 2.8$

8. 14th term: $a_1 = 4.2; d = -5$

9. 17th term; $a_1 = 2.3; d = -2.3$

10. 92nd term; $a_1 = 1; d = 0.8$

11. A movie rental club charges \$4.95 for the first month's rentals. The club charges \$18.95 for each additional month. How much is the total cost for one year? _____

12. A carnival game awards a prize if Kasey can shoot a basket. The charge is \$5.00 for the first shot, then \$2.00 for each additional shot. Kasey needed 11 shots to win a prize. What is the total amount Kasey spent to win a prize? _____