Skills Practice

Act. #13

Geometric Sequences

Find the next two terms of each geometric sequence.

2. 6, 3,
$$\frac{3}{2}$$
, ...

Find the first five terms of each geometric sequence described.

7.
$$a_1 = 6, r = 2$$

8.
$$a_1 = -27, r = 3$$

9.
$$a_1 = -15, r = -1$$

10.
$$a_1 = 3, r = 4$$

11.
$$a_1 = 1, r = \frac{1}{2}$$

12.
$$a_1 = 216, r = -\frac{1}{3}$$

Find the indicated term of each geometric sequence.

13.
$$a_1 = 5, r = 2, n = 6$$

14.
$$a_1 = 18, r = 3, n = 6$$

15.
$$a_{\frac{1}{l}} = -3, r = -2, n = 5$$

16.
$$a_1 = -20, r = -2, n = 9$$

17.
$$a_8$$
 for -12 , -6 , -3 , ...

18.
$$a_7$$
 for 80, $\frac{80}{3}$, $\frac{80}{9}$, ...

Find the sum of the first 4 terms of the sequence (geometric).

$$\frac{1}{3}, \frac{4}{15}, \dots$$

Find the geometric means in each sequence.