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Segmence	Remen	17
Sequence	IXCVIC	vv

Name		
Name		

Tell whether each sequence is arithmetic, geometric, or neither, and supply the missing terms of the sequence.

- 1. 3, 7, 11, 15, ____, Type of sequence? _____
- 2. 2187, 729, 243, 81, ____, ____, Type of sequence? _____
- 3. What is the 4th term in the sequence: $t_n = 13 4n$
- 4. What is the 6th term in the sequence: $t_n = \frac{(-2)^n}{8}$

Find a formula for the nth term of each arithmetic sequence:

5. -3, -10, -17, -24,

6. 5, 7, 9, 11,

Find the arithmetic mean of each pair.

7. 4, 20

- 8. -6, 2
- 9. Insert three arithmetic means between 6 and 30.
 - 6, ____, ____, 30
- 10. Insert four arithmetic means between 18 and 78.
 - 18, ____, ____, 78

Find a formula for the nth term of each geometric series.

Find the specified term of each arithmetic sequence.

13. 3, 11, 19,;
$$t_{40} =$$

13. 3, 11, 19,;
$$t_{40} =$$
 14, $t_5 = 24$ $t_9 = 40$; $t_2 = ?$

Find the specified term of each geometric sequence.

15. 2, 6, 18, 54,;
$$t_{11} =$$

15. 2, 6, 18, 54,;
$$t_{11} = 16$$
, $t_3 = 4$ $t_6 = 32$; $t_{10} = ?$

Find the geometric mean of each pair of numbers

18.
$$\frac{1}{12}, \frac{1}{48}$$

19. Insert two geometric means between the numbers -4 and 108

20. Insert 3 geometric means between the numbers -3 and 486