Is the sequence geometric? If so, find the common ratio and the next two terms

5. 10, 4, 1.6, 0.64, . . .

7. 18,
$$-6$$
, 2, $-\frac{2}{3}$, ...

8.
$$1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots$$

12.
$$\frac{1}{2}$$
, $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{8}$, ...

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Write the explicit formula for each sequence. Then generate the first five terms.

13.
$$a_1 = 5, r = -3$$

14.
$$a_1 = 0.0237, r = 10$$
 15. $a_1 = \frac{1}{2}, r = \frac{2}{3}$

15.
$$a_1 = \frac{1}{2}, r = \frac{2}{3}$$

16.
$$a_1 = 1, r = 0.5$$

17.
$$a_1 = 100, r = -20$$
 18. $a_1 = 7, r = 1$

18.
$$a_1 = 7, r = 1$$

19.
$$a_1 = 1024, r = 0.5$$
 20. $a_1 = 4, r = 0.1$ **21.** $a_1 = 10, r = -1$

20.
$$a_1 = 4, r = 0.1$$

21.
$$a_1 = 10, r = -1$$

Find the missing term of each geometric sequence. It could be the geometric mean or its opposite.

24.
$$\frac{2}{5}$$
, \mathbb{Z} , $\frac{8}{45}$, ...

Identify each sequence as arithmetic, geometric, or neither. Then find the next two terms.

For the geometric sequence 3, 12, 48, 192, ..., find the indicated term.

Find the 10th term of each geometric sequence.

48.
$$a_9 = 8, r = \frac{1}{2}$$

49.
$$a_{11} = 8, r = \frac{1}{2}$$

50.
$$a_9 = -5, r = -\frac{1}{2}$$

51.
$$a_{11} = -5, r = -\frac{1}{2}$$

