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

3.
$$1, -2, 4, -8, \dots$$

5.
$$1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots$$

Write the recursive and explicit formula for each sequence. Then, find the 2nd and 3rd term:

7.
$$a_1 = 5; r = -3$$

8.
$$a_1 = \frac{1}{2}$$
; $r = \frac{2}{3}$

9.
$$a_1 = 30; r = 0.5$$

Find the missing term(s) of the geometric sequence: (remember, you may have two ratios)

10.
$$\frac{2}{5}$$
,[], $\frac{8}{45}$

12. 100,[],[],
$$\frac{25}{4}$$

Find the 10th term of each sequence:

13.
$$a_9 = 8; r = -\frac{1}{2}$$

14.
$$a_{11} = -5; r = -\frac{1}{2}$$
 15. $a_{11} = -\frac{1}{3}; r = \frac{2}{3}$

15.
$$a_{11} = -\frac{1}{3}$$
; $r = \frac{2}{3}$