Determine if it is geometric sequence. If so, find the common ratio.

1) $-1,\ 6,\ -36,\ 216, \ldots$

3) $4,\ 16,\ 36,\ 64, \ldots$

5) $-2,\ -4,\ -8,\ -16, \ldots$

Find the first five terms of the geometric sequence. Then find the 8th term.

7) $a_n = 3^{n-1}$

9) $a_n = -2.5 \cdot 4^{n-1}$

Find the first five terms and the formula for the nth term

15) $a_1 = 0.8,\ r = -5$

17) $a_1 = -4,\ r = 6$

19) $a_1 = 2,\ r = 6$

Find the first 5 terms and the formula for the nth term

21) $a_4 = 25,\ r = -5$

Find the 8th term and the formula for the geometric sequence

23) $a_4 = -12$ and $a_5 = -6$

25) $a_1 = -2$ and $a_5 = -512$