Finding Terms of Geometric Sequences

Directions: Use the given first term and common ratio to write terms of the geometric sequence. Show all work.

1. A geometric sequence has $a_1 = -3$ and common ratio $r = -2$. Write the first 5 terms.

2. A geometric sequence has $a_1 = 4$ and common ratio $r = \frac{1}{2}$. Write the first 5 terms.

3. A geometric sequence has $a_1 = 6$ and common ratio $r = 3$. Write the first 5 terms.

4. A geometric sequence has $a_1 = 81$ and common ratio $r = \frac{1}{3}$. Write the first 5 terms.

5. A geometric sequence has $a_1 = 6$ and $r = 2$. Find a_8.

6. A geometric sequence has $a_1 = 3$ and $r = 4$. Find a_6.

7. A geometric sequence has $a_1 = 80$ and $r = \frac{1}{2}$. Find a_7.

8. A geometric sequence has $a_1 = 96$ and $r = \frac{1}{3}$. Find a_5.

9. A geometric sequence has $a_1 = 5$ and $r = -2$. Find a_6.

10. A geometric sequence has $a_1 = 72$ and $r = -\frac{1}{2}$. Find a_6.

11. A geometric sequence has $a_1 = 7$ and $r = 3$. Find a_5.

12. A geometric sequence has $a_1 = 320$ and $r = \frac{1}{4}$. Find a_4.