Writing Explicit Formulas

Directions: Write an explicit formula for each geometric sequence. Show all work.

1. Write an explicit formula for the geometric sequence $4,\ 8,\ 16,\ 32,\ \ldots$.

2. Write an explicit formula for the geometric sequence $7,\ 21,\ 63,\ 189,\ \ldots$.

3. Write an explicit formula for the geometric sequence $96,\ 48,\ 24,\ 12,\ \ldots$.

4. Write an explicit formula for the geometric sequence $81,\ 27,\ 9,\ 3,\ \ldots$.

5. Write an explicit formula for the geometric sequence $5,\ -10,\ 20,\ -40,\ \ldots$.

6. Write an explicit formula for the geometric sequence $64,\ -32,\ 16,\ -8,\ \ldots$.

7. Write an explicit formula for the geometric sequence $-3,\ -12,\ -48,\ -192,\ \ldots.$

8. Write an explicit formula for the geometric sequence $250,\ 50,\ 10,\ 2,\ \ldots.$

9. Write an explicit formula for the geometric sequence $6,\ 4,\ \frac{8}{3},\ \frac{16}{9},\ \ldots.$

10. Write an explicit formula for the geometric sequence $2,\ 10,\ 50,\ 250,\ \ldots.$

11. Write an explicit formula for the geometric sequence $12,\ -4,\ \frac{4}{3},\ -\frac{4}{9},\ \ldots.$

12. Write an explicit formula for the geometric sequence $9,\ \frac{27}{2},\ \frac{81}{4},\ \frac{243}{8},\ \ldots.$