

Recursive Formulas for Geometric Sequences

Write the recursive formula for each geometric sequence.

1) $\frac{1}{\sqrt{3}}, \frac{6}{\sqrt{3}}, \frac{36}{\sqrt{3}}, \frac{216}{\sqrt{3}}, \dots$

2) $-77, 231, -693, 2079, \dots$

3) $40, 280, 1960, 13720, \dots$

4) $12, -108, 972, -8748, 78732, \dots$

5) $\frac{7}{2}, \frac{21}{4}, \frac{63}{8}, \frac{189}{16}, \frac{567}{32}, \dots$

6) $-50, -300, -1800, -10800, \dots$

7) $-1.3, -9.1, -63.7, -445.9, \dots$

8) $64, -512, 4096, -32768, 262144, \dots$

9) $84.2, -168.4, 336.8, -673.6, 1347.2, \dots$

10) $\frac{10}{3}, \frac{2}{3}, \frac{2}{15}, \frac{2}{75}, \dots$
