

Geometric Sequences

Determine whether each sequence is a geometric sequence. If so, identify the common ratio, r , and the next term.

1. 3, 6, 12, 24, ...

2. 2, 6, 18, 54, ...

3. 9, 3, 1, $\frac{1}{3}$, ...

4. 2, 4, 6, 8, ...

5. 1, -4, 16, -64, ...

6. 2, 3, 4.5, 6.75, ...

7. 10, 2, $\frac{2}{5}$, $\frac{2}{25}$, ...

8. 6, 42, 294, ...

9. 16, 20, 25, 31.25, ...

10. 3, 9, 27, 81, ...

11. $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$