

Geometric Sequence

Determine whether each set of numbers given below forms a geometric sequence.

1) 2, 7, 10, 15, 18, ...

2) $-\frac{2}{3}, -\frac{5}{3}, -\frac{25}{6}, -\frac{125}{12}, -\frac{625}{24}, \dots$

3) 53, -31.8, 19.08, -11.448, ...

4) 7.5, 7, 6.5, 6, 5.5, ...

5) $\frac{3}{2}, \frac{6}{7}, \frac{24}{49}, \frac{96}{343}, \frac{384}{2401}, \dots$

6) -85, -116, -147, -178, -209, ...

7) 6, 1, -5, -12, -20, ...

8) 16, -80, 400, -2000, 10000, ...

9) $\sqrt{13}, \frac{\sqrt{13}}{8}, \frac{\sqrt{13}}{64}, \frac{\sqrt{13}}{512}, \dots$

10) 4, 44, 484, 5324, 58564, ...
