

Geometric Sequence

Determine whether the given sequence is geometric. If it is geometric, find the common ratio(r).

1) $6, 26, 46, 66, 86, \dots$

2) $2\sqrt{2}, 8\sqrt{2}, 32\sqrt{2}, 128\sqrt{2}, 512\sqrt{2}, \dots$

3) $3.2, -16, 80, -400, \dots$

$60, 140, \dots$

5) $7.3, 43.8, 262.8, \dots$

$\frac{243}{64}, \dots$

7) $-5, -18, -31, -44, \dots$

$16384, \dots$

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9) $-\frac{1}{3}, -\frac{5}{12}, -\frac{25}{48}, -\frac{125}{192}, -\frac{625}{768}, \dots$

10) $-1, -3, -6, -10, -15, \dots$

Geometric Sequence

Determine whether the given sequence is geometric. If it is geometric, find the common ratio(r).

1) 6, 26, 46, 66, 86, ...

2) $2\sqrt{2}, 8\sqrt{2}, 32\sqrt{2}, 128\sqrt{2}, 512\sqrt{2}, \dots$

No**Yes, $r = 4$**

3) 3.2, -16, 80, -400, ...

160, 140, ...

Yes**No**

5) 7.3, 43.8, 262.8, ...

$\frac{243}{64}, \dots$

Yes

$= -\frac{3}{2}$

7) -5, -18, -31, -44, ...

16384, ...

No**Yes, $r = 8$**

9) $-\frac{1}{3}, -\frac{5}{12}, -\frac{25}{48}, -\frac{125}{192}, -\frac{625}{768}, \dots$

10) -1, -3, -6, -10, -15, ...

Yes, $r = \frac{5}{4}$ **No**

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