

Name : _____

Geometric Sequence

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

1) 100, 130, 169, 219.7, 285.61, ...

2) 3, -27, 243, -2187, 19683, ...

3) -11, -20, -31, _____

_____ $\frac{3\sqrt{3}}{125\sqrt{2}}$, ...

PREVIEW

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5) 175, 35, 7, 1.4, _____

0, ...

7) $\frac{2}{7}, \frac{8}{21}, \frac{32}{63}, \frac{12}{18}$ _____

-3.2, -4, ...

9) 16, 9, 2, -5, -12, ...

10) 1, 14, 196, 2744, 38416, ...

Geometric Sequence

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

1) 100, 130, 169, 219.7, 285.61, ...

2) 3, -27, 243, -2187, 19683, ...

Yes, $r = 1.3$ **Yes, $r = -9$**

3) -11, -20, -31, ...

PREVIEW

... $\frac{3\sqrt{3}}{125\sqrt{2}}$, ...

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$= \frac{\sqrt{3}}{5}$

5) 175, 35, 7, 1.4, ...

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0, ...

Yes,**No**

7) $\frac{2}{7}, \frac{8}{21}, \frac{32}{63}, \frac{128}{189}, \dots$

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-3.2, -4, ...

Yes, $r = \frac{4}{3}$ **No**

9) 16, 9, 2, -5, -12, ...

10) 1, 14, 196, 2744, 38416, ...

No**Yes, $r = 14$**