

## First Term & Common Ratio of a Geometric Sequence

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Write the first term (a) and the common ratio (r) of each geometric sequence.

1)  $-3, -45, -675, -10125, -151875, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

2)  $\sqrt{2}, 7\sqrt{2}, 49\sqrt{2}, 343\sqrt{2}, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

3)  $\frac{2}{5}, -\frac{2}{3}, \frac{10}{9}, -\frac{50}{27}, \frac{250}{81}, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

4)  $80, -720, 6480, -58320, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

5)  $4.4, 13.2, 39.6, 118.8, 356.4, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

6)  $-27, 108, -432, 1728, -6912, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

7)  $-8, 1.6, -0.32, 0.064, -0.0128, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

8)  $4.2, 37.8, 340.2, 3061.8, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

9)  $789, 1578, 3156, 6312, 12624, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$

10)  $-\frac{1}{9}, \frac{2}{15}, -\frac{4}{25}, \frac{24}{125}, -\frac{144}{625}, \dots$

$a = \underline{\hspace{2cm}} ; r = \underline{\hspace{2cm}}$