

First Term & Common Ratio of a Geometric Sequence

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

1) $-8.1, 24.3, -72.9, 218.7, -656.1, \dots$

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

2) $5, -10, 20, -40, 80, \dots$

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

3) $7.2, 36, 180, 900, 4500, \dots$

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

4) $-16, -8, -4, -2, -1, \dots$

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

5) $-\frac{4}{9}, \frac{4}{15}, -\frac{4}{25}, \frac{12}{125}, -\frac{36}{625}, \dots$

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

6) $0.5, -3.5, 24.5, -171.5, 1200.5, \dots$

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

7) $-80, -320, -1280, -5120, -20480, \dots$

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

8) $-\frac{1}{2}, \frac{2}{3}, -\frac{8}{9}, \frac{32}{27}, -\frac{128}{81}, \dots$

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

9) $\sqrt{5} - 1, 3\sqrt{5} - 3, 9\sqrt{5} - 9, 27\sqrt{5} - 27, \dots$

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

10) $134, 804, 4824, 28944, \dots$

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