Name : _____

Geometric Sequence

Sheet 1

1) Find the 5^{th} term from the last element of the sequence 10, 20, 40 … 1280.

_____

2) Which term of the sequence $\frac{3}{4}, \frac{3}{5}, \frac{12}{25}$ is $\frac{3072}{15625}$?

_____

3) Find the first term of the geometric sequence whose third term is 81 and the common ratio is 3.

_____

4) How many terms are there in the sequence 9, 18, 36 … 4608?

_____

5) If the third term of a geometric progression is $\frac{1}{\sqrt{2}}$ and the common ratio is $\frac{1}{2}$. Find the 6^{th} term.

_____

Name : _____ **Answer key**

Geometric Sequence

Sheet 1

1) Find the 5th term from the last element of the sequence 10, 20, 40 … 1280.

80

2) Which term of the sequence $\frac{3}{4}, \frac{3}{5}, \frac{12}{25}$ is $\frac{3072}{15625}$?

7th term

3) Find the first term of the geometric sequence whose third term is 81 and the common ratio is 3.

9

4) How many terms are there in the sequence 9, 18, 36 … 4608?

10 terms

5) If the third term of a geometric progression is $\frac{1}{\sqrt{2}}$ and the common ratio is $\frac{1}{2}$. Find the 6th term.

$\frac{1}{8\sqrt{2}}$