

Name : \_\_\_\_\_

L2S4

## Find the GP

- 1) Find the 8<sup>th</sup> term of the geometric progression whose eighteenth term is  $\frac{1}{98304}$  and the twelfth term is  $\frac{1}{1536}$ .
- \_\_\_\_\_

- 2) The 14<sup>th</sup> and 10<sup>th</sup> terms of a geometric progression are 61.5 and -9841.5 respectively, find the first term and the common ratio.
- \_\_\_\_\_

- 3) Determine the 11<sup>th</sup> term of a geometric progression whose first term is  $\frac{1}{2097152}$  and whose common ratio is 2.
- \_\_\_\_\_

- 4) If the eighth term of a geometric progression is 4802 and the second term is 4802, find the first term and the common ratio.
- \_\_\_\_\_

- 5) The ninth term of the sequence is 2500 and the second term is  $4\sqrt{5}$ . Find the 6<sup>th</sup> term.
- \_\_\_\_\_

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Name : \_\_\_\_\_

## Answer key

L2S4

### Find the GP

- 1) Find the 8<sup>th</sup> term of the geometric progression whose eighteenth term is  $\frac{1}{98304}$  and the twelfth term is  $\frac{1}{1536}$ .

**8<sup>th</sup> term is  $\frac{1}{96}$**

- 2) The 14<sup>th</sup> and 10<sup>th</sup> terms of a geometric progression are 61.5 and -9841.5 respectively, find the first term and the common ratio.

- 3) Determine the 11<sup>th</sup> term of a geometric progression whose first term is  $\frac{1}{2097152}$  and whose common ratio is 2.

- 4) If the eighth term of a geometric progression is 4802 and the second term is 4802, find the first term and the common ratio.

**2<sup>nd</sup> term is -14**

- 5) The ninth term of the sequence is 2500 and the second term is  $4\sqrt{5}$ . Find the 6<sup>th</sup> term.

**6<sup>th</sup> term is  $100\sqrt{5}$**

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