

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

## Find the GP

L1S1

- 1) Find the geometric progression whose seventh term is  $-320$  and eleventh term is  $-5120$ .

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- 2) The 6<sup>th</sup> term of the sequence is  $2048\sqrt{7}$  and the 9<sup>th</sup> term is  $131072\sqrt{7}$ . Find the geometric progression.

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- 3) If the eighth term of a progression is  $117187.5$  and the sixth term is  $4687.5$ , find the geometric sequence.

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- 4) The 10<sup>th</sup> and 5<sup>th</sup> terms of a geometric sequence are  $-262144$  and  $256$  respectively, find the geometric progression.

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- 5) Determine the geometric sequence whose fourth term is  $\frac{1}{16}$  and thirteenth term is  $\frac{1}{8192}$ .

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## Answer key

L1S1

### Find the GP

- 1) Find the geometric progression whose seventh term is  $-320$  and eleventh term is  $-5120$ .

**$-5, -10, -20, -40, -80, \dots$**

- 2) The 6<sup>th</sup> term of the sequence is  $2048\sqrt{7}$  and the 9<sup>th</sup> term is  $131072\sqrt{7}$ . Find the geometric progression.

**$2\sqrt{7}, 8\sqrt{7}, 32\sqrt{7}, 128\sqrt{7}, 512\sqrt{7}, \dots$**

- 3) If the eighth term of a progression is  $117187.5$  and the sixth term is  $4687.5$ , find the geometric sequence.

**$1.5, 7.5, 37.5, 187.5, 937.5, \dots$**

- 4) The 10<sup>th</sup> and 5<sup>th</sup> terms of a geometric sequence are  $-262144$  and  $256$  respectively, find the geometric progression.

**$1, -4, 16, -64, 256, \dots$**

- 5) Determine the geometric sequence whose fourth term is  $\frac{1}{16}$  and thirteenth term is  $\frac{1}{8192}$ .

**$\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \dots$**