# **Pre-Calculus 11 - Sequences and Series Review**

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

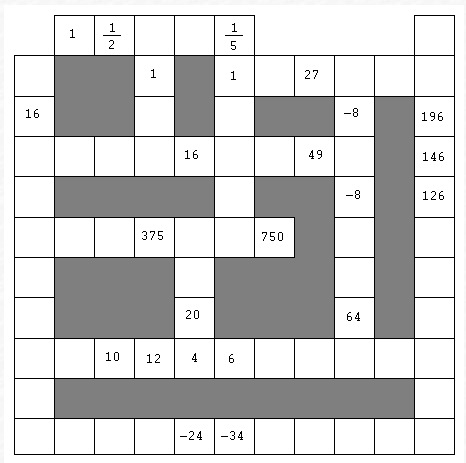
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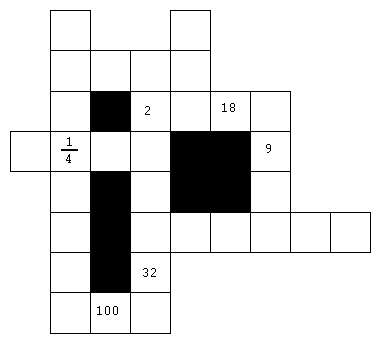
**Question 1 –** Going across and going down are different number sequences. Fill in the empty boxes so that each sequence has a pattern.

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**Question 2** – Complete the table below

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| First 5 Terms | arithmetic *(d* = ?)  geometric (*r* = ?)  neither |  |  | General Term |
| -1, 4, 9, \_\_\_\_, \_\_\_\_ |  |  |  |  |
| , \_\_\_\_, \_\_\_\_ |  |  |  |  |
|  | geometric | 15 |  |  |
| , \_\_\_\_ |  |  |  |  |
|  |  |  |  |  |
|  | arithmetic *d* = 1 | -5 | 5 |  |

**Question 3** - Fill in the empty boxes with positive numbers so that each row and column forms a geometric sequence. Each change of direction is a different sequence.



\*\*\* Solutions \*\*\*

Problems from Mathematics Teacher January 1989. Problem #2 is also on p45 #26 of textbook.

