

## Lesson 1.3: Geometric Sequences

Complete the *Practice* below. When you have completed all the questions for *Lesson 1.3 Practice – VI* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



## Practice – VI

1. Determine the number of terms,  $n$ , in the geometric sequence  $25, -5, 1, \dots, -0.008$ .
2. A flower shop owner promises that their flowers will last for one week, and offers a money-back guarantee. In reality, the flowers lose 2% of their vibrancy each day.
  - a. What percent of the original colour do the flowers have at the end of one week (7 days)?  
Note the flowers will have 100% vibrancy on the first day.

b. How many days will have passed when the vibrancy of the flowers is 75%?

c. What assumption is made in order to answer part b.?

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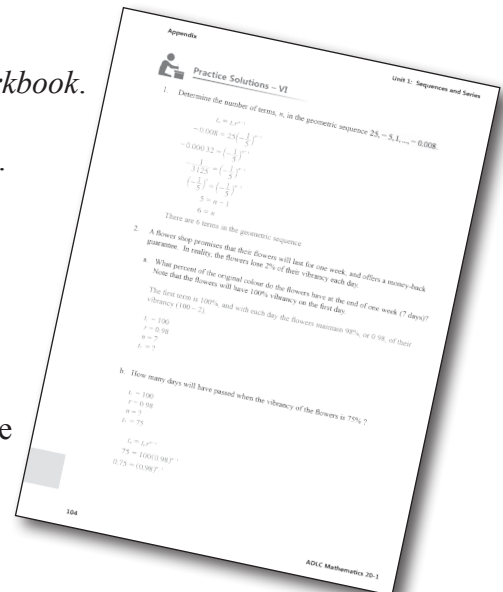
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Mark your work for *Lesson 1.3 Practice – VI* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on *Lesson 1.3 Practice – VI* is \_\_\_\_\_.

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.



| Question Number | Got it! | Almost there... | Need to retry or ask for help. | Similar questions from Pre-Calculus 11 |
|-----------------|---------|-----------------|--------------------------------|--|
| 1               |         |                 |                                | p. 40 #9d, 10e, 19b                    |
| 2               |         |                 |                                | p. 40 #9, 10, 14, 19, 20               |

You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.

**Note:** Before you complete *Explore Your Understanding*, you may review your skills and get more practice by completing the following problems in *Pre-Calculus 11*.

- Page 39 #1, 2c, 5, 9, 10, 14, 19, and 20

Check your work in *Enhance Your Understanding*.

