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, ..., -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.

h	How many	days will have passe	ed when the vibranc	y of the flowers is 75%?
υ.	110 W IIIaii y	uays will have passy	d when the vibrane	y 01 the newers is 13/0.

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

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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.

1		
rkbook.	Practice Solutions - VI	Unit 1: Sequences and Series
ROOOK.	Determine the number of	Triefices and Savies
1	Determine the number of terms, n, in the peometric	
1	-0.008 = 24/ 1 m	sequence 25 c .
1	$-0.00032 = (-\frac{1}{3})^{-1}$	
. /	3125 = (-1)	
- /	$(-\frac{1}{5})^{n} = (-\frac{1}{5})^{n}$	
/	5 = n - 1	
1	$Th_{HP} = 0$	
1	2. A Bower ch.	
1	2. A flower sheep promises that their flowers will have for one parameter. It reality, the downer loss 2% of their vibrativy on Note that the Bowers will have for one parameter. 4. What persons of the conjunction of the flowers have a Note that the flowers will have 100% a Vibrative 100% a Vib	
1	a. What percent of a	26
1	that the flowers will have been do the a-	ch day:
1	vibrancy (100 is 100%, and	he end or
1	The distribution of the di	ay. ** ** week (7 days)?
1	7 = 0.98 0 = 7	10 989/s, or 0.98, or s.
1		
1	b. How.	
1	many days will have passed	
1	7 = 0.98 When the vibrancy of the o	
10	b. How many days will have passed when the vibrancy of the flowers $x=0$ to $x=0$	is 75% ₇
ie /		
	75 = 100	
	0.75 = (0.98)**	
104		
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rotex.		

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.

