

Algebra 1 B

Name _____

Unit 1 Objective 6 Practice

Period _____ **Date** _____

Find the next three terms of each sequence.

1. $-1, 2, 5, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$
2. $-19, -15, -11, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$
3. $0, -4, -8, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$
4. $-2, 1, 10, 25, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$
5. $-2, 0, -2, -8, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

Given the sequences, answer the following.

6. What is the 8th term of the sequence $20, 24, 28, \dots$?
7. What is the 10th term of the sequence $-3, -6, -9, \dots$?
8. What is the 6th term of the sequence $23, 16, 9, \dots$?
9. What is the 7th term of the sequence $0, 2, 8, 18, \dots$?

Complete the following tables by identifying the pattern and answer the question.

10. The population of rabbits increases according to the table below.

Year	2000	2005	2010	2015	2020	2025
# of Rabbits	24	29	34			

How many rabbits will there be in 2050?

11. A rental company charges for truck rentals according to the table below.

# of Hours	0	1	2	3	4	5
Cost	\$19	\$22	\$25			

How much would it cost to rent a truck for 8 hours?

12. The height of an oak tree is represented by the table below.

Year	1950	1960	1970	1980	1990	2000
Height in ft.	28	29.5	31			

How tall will be the oak tree be in 2015?