

TEKS A.3.B



LESSON
11.1

Practice B

Geometric Sequences

Find the next three terms in each geometric sequence.

1. $-5, -10, -20, -40, \dots$

2. $7, 56, 448, 3584, \dots$

3. $-10, 40, -160, 640, \dots$

4. $40, 10, \frac{5}{2}, \frac{5}{8}, \dots$

5. The first term of a geometric sequence is 6 and the common ratio is -8 . Find the 7th term.
- _____

6. The first term of a geometric sequence is -3 and the common ratio is $\frac{1}{2}$. Find the 6th term.
- _____

7. The first term of a geometric sequence is -0.25 and the common ratio is -3 . Find the 10th term.
- _____

8. What is the 12th term of the geometric sequence $-4, -12, -36, \dots$?
- _____

9. What is the 10th term of the geometric sequence $2, -6, 18, \dots$?
- _____

10. What is the 6th term of the geometric sequence $50, 10, 2, \dots$?
- _____

11. A shoe store is discounting shoes each month. A pair of shoes cost \$80. The table shows the discount prices for several months. Find the cost of the shoes after 8 months. Round your answer to the nearest cent.

Month	Price
1	\$80.00
2	\$72.00
3	\$64.80