

Name \_\_\_\_\_

Date \_\_\_\_\_

**Writing Expressions for Geometric Sequences - Independent Practice Worksheet**

Write an equation to describe the sequences below. Use  $n$  to represent the position of a term in the sequence, where  $n = 1$  for the first term.

1. -2, -6, -18, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

2. -4, -8, -16, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

3. -5, -20, -80, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

4. -6, -30, -150, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

5. -3, -18, -108, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$



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6. -2, -14, -98, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

7. -7, -49, -343, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

8. -5, -10, -20, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

9. -9, -36, -144, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

10. -6, -12, -24, .....

Write your answer using decimals and integers.

$$a_n = \boxed{\phantom{00}} (\boxed{\phantom{00}})^{n-1}$$

