Using Recursive Formulas

Directions: Use each recursive formula to write the requested terms. Show all work.

1. Write the first 6 terms of the sequence if $a_1 = 4$, $a_n = 3a_{n-1}$.

2. Write the first 6 terms of the sequence if $a_1 = 96$, $a_n = \frac{1}{2}a_{n-1}$.

3. Write the first 5 terms of the sequence if $a_1 = 7$, $a_n = 2a_{n-1}$.

4. Write the first 5 terms of the sequence if $a_1 = 125$, $a_n = \frac{1}{5}a_{n-1}$.

5. Write the first 6 terms of the sequence if $a_1 = 6$, $a_n = -2a_{n-1}$.

6. Write the first 6 terms of the sequence if $a_1 = 80$, $a_n = -\frac{1}{2}a_{n-1}$.

7. Write the first 5 terms of the sequence if $a_1 = 3$, $a_n = 4a_{n-1}$.

8. Write the first 5 terms of the sequence if $a_1 = 54$, $a_n = \frac{1}{3}a_{n-1}$.

9. Write the first 5 terms of the sequence if $a_1 = 5$, $a_n = \frac{2}{3}a_{n-1}$.

10. Write the first 4 terms of the sequence if $a_1 = 2$, $a_n = 5a_{n-1}$.

11. Write the first 4 terms of the sequence if $a_1 = 100$, $a_n = \frac{3}{10}a_{n-1}$.

12. Write the first 5 terms of the sequence if $a_1 = 12$, $a_n = -\frac{1}{3}a_{n-1}$.