

1. Write an explicit formula for a_n , the n^{th} term of the sequence 26, 16, 6,
2. Find the 9th term of the arithmetic sequence $-x + 9$, $4x + 15$, $9x + 21$, ...
3. Find the 7th term of the geometric sequence show below
$$8x^3, -16x^7, 32x^{11}, \dots$$
4. If $a_1 = 3$ and $a_n = -3a_{n-1} + 2$ then find the value of a_5 .

5. Write a recursive formula for a_n , the n^{th} term of the sequence 45, 15, 5,

$$a_1 = \boxed{}$$

$$a_n = \boxed{}$$