

Answers to Sequence 6 WS: Recursive Sequences

1) 3, 9, 27, 81

5) 1, 3, 9, 27

9) $a_n = a_{n-1} + 6$
 $a_1 = 25$

13) $a_n = a_{n-1} \cdot 6$
 $a_1 = 4$

17) $a_n = a_{n-1} \cdot 4$
 $a_1 = 2$

2) -0.4, -2, -10, -50

6) 1.25, 5, 20, 80

10) $a_n = a_{n-1} + 4$
 $a_1 = -28$

14) $a_n = a_{n-1} \cdot 2$
 $a_1 = -4$

18) $a_n = na_{n-1}$
 $a_1 = 1$

3) -4, -12, -36, -108

7) 2, 4, 8, 16

11) $a_n = a_{n-1} - 7$
 $a_1 = 29$

15) $a_n = a_{n-1} + \frac{1}{2}$
 $a_1 = -2$

4) 4, 8, 16, 32

8) 3, 6, 12, 24

12) $a_n = a_{n-1} \cdot 3$
 $a_1 = -4$

16) $a_n = a_{n-1} + 9$
 $a_1 = -14$