

Name : \_\_\_\_\_

## General Sequence

Sheet 1

Write the sequence using recursive formula.

1)  $a_n = a_{n-1} + \sqrt{5}$  ;  $a_1 = \sqrt{5}$

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2)  $a_n = a_{n-1} \cdot 3$  ;  $a_1 = -1.7$

---

3)  $a_n = a_{n-1} + 2.3$  ;

---

$a_1 = 6$

---

5)  $a_n = -\frac{1}{4} \cdot a_{n-1}$  ;

---

$a_1 = 9$

---

7)  $a_n = a_{n-1} \cdot (n^3 +$

---

$a_1 = 4$

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9)  $a_n = (2^n - 2) \cdot a_{n-1}$  ;  $a_1 = 3$

---

10)  $a_n = \frac{3^n}{5} + a_{n-1}$  ;  $a_1 = \frac{1}{3}$

---

**General Sequence**

Write the sequence using recursive formula.

1)  $a_n = a_{n-1} + \sqrt{5}$  ;  $a_1 = \sqrt{5}$

2)  $a_n = a_{n-1} \cdot 3$  ;  $a_1 = -1.7$

 $\sqrt{5}, 2\sqrt{5}, 3\sqrt{5}, 4\sqrt{5}, \dots$  $-1.7, -5.1, -15.3, -45.9, \dots$ 

3)  $a_n = a_{n-1} + 2.3$  ;

1) ;  $a_1 = 6$

 $10, 12.3$  $144, 2160, \dots$ 

5)  $a_n = -\frac{1}{4} \cdot a_{n-1}$  ;

= 9

 $12, -3$  $141, 3087, \dots$ 

7)  $a_n = a_{n-1} \cdot (n^3 +$

$a_1 = 4$

 $2, 18, 504, 32760, \dots$  $4, 12, 30, 62, \dots$ 

9)  $a_n = (2^n - 2) \cdot a_{n-1}$  ;  $a_1 = 3$

10)  $a_n = \frac{3^n}{5} + a_{n-1}$  ;  $a_1 = \frac{1}{3}$

 $3, 6, 36, 504, \dots$  $\frac{1}{3}, \frac{32}{15}, \frac{113}{15}, \frac{356}{15}, \dots$ 

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