

Name : _____

Recursive Formula

Sheet 1

Write the recursive formula for each sequence.

1) 23, 4, -15, -34, -53, ...

2) 1, 8, 216, 13824, ...

3) 2, 8, 72, 1152, 2

, 2, ...

5) 1.3, 6.5, 32.5, 1

, ...

7) $2\sqrt{5}$, $24\sqrt{5}$, 288

151, ...

9) $\frac{3}{4}$, $\frac{27}{4}$, $-\frac{729}{4}$, $-\frac{59049}{4}$, ...

10) 1, 2, 6, 24, 120, ...

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Recursive Formula

Write the recursive formula for each sequence.

1) 23, 4, -15, -34, -53, ...

2) 1, 8, 216, 13824, ...

$$a_n = a_{n-1} - 19$$

$$a_n = a_{n-1} \cdot n^3$$

3) 2, 8, 72, 1152, ...

, 2, ...

$$a_n =$$

$$a_{n-1} + 0.4$$

5) 1.3, 6.5, 32.5, 1

, ...

$$a_n =$$

$$a_{n-1} + \frac{9}{5}$$

7) $2\sqrt{5}, 24\sqrt{5}, 288$

151, ...

$$a_n = a_{n-1} \cdot 12$$

$$a_n = a_{n-1} + 10n$$

9) $\frac{3}{4}, \frac{27}{4}, -\frac{729}{4}, -\frac{59049}{4}, \dots$

10) 1, 2, 6, 24, 120, ...

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

$$a_n = a_{n-1} \cdot n$$

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