

Quiz: Recursive Sequences

1 Write a recursive formula for the sequence

4, 12, 20, 38 ...

2 Write a recursive formula for the sequence

$2x, 2x+2, (2x+4)/2, (2x+6)/3, \dots$

3 Write a recursive formula for the sequence

-2, -4, -6, -8 ...

4 Write a recursive formula for the sequence

2, 9, 86, 7401, ...

5 Write a recursive formula for the sequence

2, 5, 26, 677, ...

6 Find the first 4 terms of the sequence

$a_1 = 8$   
 $a_n = (1/3)a_{n-1}$

7 Find the first 4 terms of the sequence

$a_1 = 3$   
 $a_n = \{(-1)^n / 4\}a_{n-1}$

8 Find the first 4 terms of the sequence

$a_1 = 2 ; a_2 = 4$   
 $a_n = 2a_{n-1} / a_{n-2}$

9 Find the first 4 terms of the sequence

$a_1 = 3$   
 $a_n = (2a_{n-1})/n$

10 Find the first 4 terms of the sequence

$a_1 = 8$   
 $a_n = (\sqrt{2})^n a_{n-1}$

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%