

Name _____
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Date _____
Algebra II

Writing Equations of Sequences Recursively

1. Write a recursive equation for the following sequence and use the equation to find the tenth term.

-1,3,7,11...

2. Write a recursive equation for the following sequence and use the equation to find the tenth term.

19, 16, 13, 10 ...

3. Write a recursive equation for the following sequence and use the equation to find the tenth term.

2,8,32,128,...

4. Write a recursive equation for the following sequence and use the equation to find the tenth term.

-509, -503, -497, -491 ...

5. Write a recursive equation for the following sequence and use the equation to find the fifteenth term.

5, -10, 20, -40, 80, ...

6. Write a recursive equation for the following sequence and use the equation to find the twelfth term.

11, 14, 17, 20, 23, ...

7. Write a recursive equation for the following sequence and use the equation to find the ninth term.

2, 6, 18, 54, ...

8. Write a recursive equation for the following sequence and use the equation to find the 22nd term.

63, 57, 51, 45, ...

9. Write a recursive equation for the following sequence and use the equation to find the 15th term.

3, -12, 48, -192, ...

10. Write a recursive equation for the following sequence and use the equation to find the 7th term.

-5, -15, -45, -135, ...

11. Write a recursive equation for the following sequence and use the equation to find the 30th term.

-99, -92, -85, -78, ...