

Arithmetic and Geometric Sequences WS

For each sequence, write the explicit formula, convert it to function form, and find the 10th term.

1) 10, 0, -10, -20, ...

2) 19, 14, 9, 4, ...

3) -17, -11, -5, 1, ...

4) -19, -26, -33, -40, ...

5) 3, -97, -197, -297, ...

6) 28, 34, 40, 46, ...

7) -5, 95, 195, 295, ...

8) -14, -5, 4, 13, ...

9) 37, 33, 29, 25, ...

10) 33, 23, 13, 3, ...

11) $-1, 4, -16, 64, \dots$

12) $-4, 12, -36, 108, \dots$

13) $2, -12, 72, -432, \dots$

14) $-3, 18, -108, 648, \dots$

15) $4, -24, 144, -864, \dots$

16) $-3, -15, -75, -375, \dots$

17) $-2, -4, -8, -16, \dots$

18) $-1, 6, -36, 216, \dots$

19) $1, 6, 36, 216, \dots$

20) $-3, 6, -12, 24, \dots$