

ARITHMETIC & GEOMETRIC SEQUENCES

COMPLETE THE FOLLOWING FOR EACH PROBLEM

- A) DETERMINE WHETHER THE SEQUENCE IS ARITHMETIC OR GEOMETRIC.
B) FIND THE COMMON DIFFERENCE (d) OR COMMON RATIO (r).
C) WRITE THE EXPLICIT FORMULA FOR THE SEQUENCE.
D) FIND THE GIVEN TERM USING THE FORMULA.

1) 6, 206, 406, 606, ...
Find a_{32}

2) -15, -215, -415, -615, ...
Find a_{24}

3) 12, 212, 412, 612, ...
Find a_{25}

4) 3, 6, 12, 24, ...
Find a_{11}

5) 1, -4, 16, -64, ...
Find a_{10}

6) -11, -211, -411, -611, ...
Find a_{26}

7) -10, -5, 0, 5, ...
Find a_{20}

8) 28, 34, 40, 46, ...
Find a_{31}

9) 4, 8, 16, 32, ...
Find a_{11}

10) 1, 2, 4, 8, ...
Find a_{12}

11) -2, 8, 18, 28, ...
Find a_{27}

12) -30, -32, -34, -36, ...
Find a_{33}

13) -4, -8, -16, -32, ...
Find a_9

14) 1, 4, 16, 64, ...
Find a_9

15) -4, 12, -36, 108, ...
Find a_{12}

16) 36, 30, 24, 18, ...
Find a_{22}