

Name \_\_\_\_\_

8A; Algebra 1

Date \_\_\_\_\_

Period \_\_\_\_\_

## Homework

For #1: Given the explicit formula for an arithmetic sequence find the first four terms and the term named in the problem.

1)  $a_n = -11 + 7n$

Find  $a_{34}$ 2) Write the 12<sup>th</sup> term of the sequence:  $a_n = 3n - 2$ 3) Find the explicit formula and the indicated term for the arithmetic sequence  
15<sup>th</sup> term: 2, 3.5, 5, 6.5, ...

For #'s 4 & 5: Find the explicit formula and the term named in the problem:

4) 1, -5, -11, -17, ...

Find  $a_{38}$

5) 11, 14, 17, 20, ...

Find  $a_{27}$

For #6: Given the first term and the common difference of an arithmetic sequence, find the explicit formula and the first four terms.

6)  $a_1 = -38$ ,  $d = -100$

7) A movie rental club charges \$4.95 for the first month's rentals. The club charges \$18.95 for each additional month. How much is the total cost for one year?