Accelerated Precalculus Quiz Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Sequences Period\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I. For each of the following sequences:

A) State whether the sequence is arithmetic, geometric, harmonic, quadratic or other.

B) Write the next two terms of the sequence.

C) Write the nth term explicitly.

D) Use this formula to find the 12th term and simplify completely:

1. 

2. 

3. 

4. If a1 = 3 and an  = an-1 + n.

II. Problem Solving:

5. If the 3rd term of a geometric sequence is 12 and the 6th term is 375/2, write the first term and write the nth term.

6. Insert two harmonic means between 2 and 38.

7. Evaluate:

A)  B) 

8. Write 2 + 2i in exponential form.

(9. Write the 5th term of (2x – 3y)8. We did this first semester. Can you still do it?)