Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# Secondary Math I 10-3 Homework

More Sequences

*Decide if the sequence is arithmetic or geometric and give the common ratio or common difference.*

1. -3, -1, 1, 3 … 2. 5, 15, 45 …

*Given the following recursive formulas, find the first 4 terms.*

3. a1 = 12 4. a1 = 7

 an = -3(an-1) an = an-1 + 9

*Given the following explicit formulas, find the first 4 terms.*

5. tn = 3n - 5 6. tn = $32∙\left(\frac{1}{2}\right)^{n-1}$

*Find the first 5 terms of the sequences described.*

7. a1 = -12, d = 3 8.a1 = 256, r = 1/4

*Find the given term of each sequence.*

9. a1 = 11 d = 9, n = 21 10. a17 for 3, 21, 147 …