Name_____

# Geometric Sequences Homework

**Determine whether each sequence is a geometric sequence.**
**If so, find the common ratio and the next three terms.**

1. -10, 40, -160, 640, …

2.  1, 6, 11, 16, …

3.  $\frac{9}{4}, \frac{3}{2}, 1, \frac{2}{3}$

4.  4, 10, 25, 62.5, …

**Find the indicated term of each geometric sequence.**

5. 10th term: 8, 40, 200, 1000, …

6. 7th term: 2, 18, 162, 1458, …

**Find the explicit formula for each sequence:**

7. 1, 7, 13, 19…

8. 25, 125, 625, 3125…

9. 15, 30, 60, 120…

10. 3, 100, 197, 294…