Determine the common difference or ratio and find the next 4 terms of each sequence.

1. 7, 18, 29, . . .   2. 12, 6, 3, . . .

Find the indicated term for the following sequence

3. $a_1 = 6$, $a_n = a_{n-1} + 4$; a_5 4. $a_n = 1.25(3)^{n-1}$; a_{14} 5. $a_n = 2/3n + 9$; a_{27}

Write an explicit (closed) rule and a recursive rule for the following sequences:

6. 11, 4, -3, -10, . . .   7. 4, 20, 100, 500, . . .   8. 120, 96, 76.8, 61.44, . . .

Find the indicated item

9. If $a_{13} = 78$ and $d = 4$, find a_1 11. If $a_1 = 12$, $r = 1.5$, and $a_n = 91.125$, find n

10. If $a_n = 52$, $d = 5$, and $a_1 = -8$, find n   12. If $a_1 = 25$ and $a_7 = 1.1664$, find r