Sequences and Series SS1: Arithmetic Sequences

What are the next 3 terms in the sequence and find the common difference for the sequence:

1. 3, 7, 11, _____, _____, _____   Common difference =

2. 5, 1, -3, _____, _____, _____   Common difference =

3. 10, 12, 14, _____, _____, _____   Common difference =

Write the first four terms of the given sequence:

4. $a_n = 3 + 2(n - 1)$

5. $a_n = 17 - 3(n - 1)$

6. $a_n = 5(n - 1)$

Write the first four terms of the arithmetic sequence with the given bits:

7. $a_1 = 5, d = 2$

8. $a_1 = 6, d = -3$

9. $a_3 = 5, d = 2$

Write the explicit formula for the given sequences:

10. 3, 9, 15, …

11. 25, 125, 225, …

12. -6, -4, -2, …