

## Sequences and Series SS7: Arithmetic Series

Find the value of the sum:

1.  $4 + 7 + 10 + 13 + 16 + 19 + 22 + 25$

2.  $9 + 6 + 3 + 0 - 3 - 6 - 9 - 12$

3.  $5 + 10 + 15 + 20 + \dots$

4.  $2 + 6 + 10 + 14 + \dots + 246$

5.  $8 + 10 + 12 + \dots + 542$

6.  $6 + 1 - 4 - 9 - 14 - 19 \dots -114$

7. 
$$\sum_{n=1}^{88} 3 + 7(n - 1)$$

8. 
$$\sum_{n=1}^{\infty} 2 + 11(n - 1)$$

9. 
$$\sum_{n=3}^{34} 3 + 3(n - 1)$$

10. 
$$\sum_{n=5}^{110} 5 + 6(n - 1)$$