More Practice: Arithmetic Series

Find the value of the sum:

1. 8 + 11 + 14 + 17 + 20 + 23 + 26

2. 4 + 8 + 12 + 16 + ….

3. 20 + 10 + 0 – 10 – 20 – 30 – 40 – 50

4. 13 + 24 + 35 + … + 178

5. 34 + 31 + 28 + 25 + … + –8

6. $\frac{2}{3} + \frac{5}{3} + \frac{8}{3} + \cdots + \frac{74}{3}$

7. $\sum_{n=1}^{45} 7 + 3(n-1)$

8. $\sum_{n=1}^{\infty} 1 - 0.7(n-1)$

9. $\sum_{n=6}^{23} 9 - 3(n-1)$

10. $\sum_{n=75}^{210} 3 + 4(n-1)$