More Practice: Sigma Notation

Write the terms of the series and evaluate the partial sum

1. $\sum_{n=1}^{5} 8 + 2(n-1)$

2. $\sum_{n=1}^{6} 4 \cdot 3^{n-1}$

3. $\sum_{k=2}^{7} 18 - 3(k-1)$

4. $\sum_{n=3}^{5} 1.2 \cdot 3^{n-1}$

5. $\sum_{n=1}^{4} 3n - 2$

Write the given series in sigma notation

6. 7 + 10 + 13 + 16 + 19 + 22 + 25 + 28 + 31 + 34 + 37 + 40

7. 8 + 11 + 14 + … + 80

8. $3 + \frac{3}{2} + \frac{3}{4} + \cdots + \frac{3}{1024}$

9. – 10 – 8 – 6 – 4 … 20

10. 6 + 24 + 96 + 384 + …