**Sigma Notation – Extra Practice**

**Expand these expressions :**

1. $\sum\_{k=1}^{8}(3k-5)$
2. $\sum\_{k=5}^{12}(2×3^{k})$
3. $\sum\_{k=1}^{n}(k)$

**Rewrite in Sigma notation :**

1. $3+6+9+12+15$

1. $3+5+7+9+11+13+15+17$

1. $3×5+3×5^{2}+3×5^{3}+3×5^{4}+…++3×5^{n}$

**SOLUTIONS**

1. $-2+1+4+7+10+13+16+19$
2. $2×3^{5}+2×3^{6}+2×3^{7}+…+2×3^{12}$
3. $1+2+3+…+n$
4. $\sum\_{k=1}^{5}3k$
5. $\sum\_{k=1}^{8}(2k+1)$
6. $\sum\_{k=1}^{n}3×5^{k}$