

Samples Evaluate summation SOLUTIONS

1. $\sum_{k=0}^2 2^k k = 2^0 \times 0 + 2^1 \times 1 + 2^2 \times 2 = 0 + 2 + 8 = 10$

2. $\sum_{k=2}^3 (-1)^k k = (-1)^2 \times 2 + (-1)^3 \times 3 = 2 - 3 = -1$

3. $\sum_{j=2}^6 (-2)^j j = (-2)^2 \times 2 + (-2)^3 \times 3 + (-2)^4 \times 4 + (-2)^5 \times 5 + (-2)^6 \times 6 = 8 - 24 + 64 - 160 + 384 = 272$