



$$\begin{aligned} & \text{Example} \\ & \text{What is the closed form for the following summation?} \\ & \sum_{j=1}^{n} (2 + 3_j) \\ & \text{Trick. Write this as the difference of two summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - \frac{\pi}{2} (2 + 3_j) \\ & \text{Expand the second term:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We construct summations:} \\ & \sum_{j=1}^{n} (2 + 3_j) - 13 \\ & \text{We$$

Example 1
$$\int_{1-1}^{0} (ar^2) = a \cdot \frac{r^{+11}}{r-1}$$
• Compare the value of $\int_{1-1}^{0} 4 \cdot 2^i$ • Using closed form for the summation• What is a^2 • What is a^2 • Using closed form, we have:• $\int_{1-1}^{0} a \cdot 2^i = 3 \cdot \frac{2^i}{2-1} = 189$ • Using closed form, we have: $\int_{1-1}^{0} a \cdot 2^i = 3 \cdot \frac{2^i}{2-1} = 189$ • Using closed form box to be approches infinity• Thus, this is equivalent to: $\int_{1-1}^{0} a \cdot 2^i = 3 \cdot \frac{2^i}{2-1} = 189$ • Using closed form box to be approches infinity• Thus, this is equivalent to: $\int_{1-1}^{0} a \cdot 2^i = 3 \cdot \frac{2^i}{2-1} = 189$ • We return the value of the summation: $\sum_{n=0}^{\infty} 3 \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{3}{2} = \frac{2^i}{3}$ • Using previous formula, this sam is given by $\frac{1}{2^{\infty}}$ • Using previous formula, this sam is given by $\frac{1}{2^{\infty}}$ • Compute the value of the summation: $\sum_{n=0}^{\infty} 3 \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{3}{2} = \frac{2^i}{3}$ • Using previous formula, this sam is given by $\frac{1}{2^{\infty}}$ • Using previous formula, this sam is given by $\frac{1}{2^{\infty}}$ • We close the value of or infinite sets• A set A is called contrable integers.• A set A is called contrably infinite if there is a biperiod integers.• A set A is called contrably infinite if there is a biperiod bip integers.• Need to find a function f for $\frac{1}{2}$ to the set of odd positive integers is countably infinite.• Note we have a biperiod f is in the set of not packbox integers.• Need to find a function f for $\frac{1}{2}$ to the set of odd positive integers.• Not a start of a close transmitter of f is a close to routably infinite.• Need to find a function f is biperion f .• Not a



