Worksheet 4

Finite Sums

For the finite sum \( \frac{1}{2^2} + \frac{1}{2^3} + \frac{1}{2^4} + \frac{1}{2^5} + \frac{1}{2^6} + \frac{1}{2^7} \)

1. Write the formula for the sequence of terms: \( a_n = \) ________________

2. Write the sum in sigma notation.

3. Graph the sequence, with correctly labeled and scaled axes. Then shade rectangles that represent the sum.