Section 18.1

Sequence

Write the first four terms of the sequence whose nth term is given by the formula

1. $a_n = 1 + 2n$ 2. $a_n = 2^{n-1}$ 3. $a_n = (-1)^n n$

Find the indicated term of the sequence whose nth term is given by the formula

4. $a_n = n(n+1); a_{12}$ 5. $a_n = (n+3)(n+1); a_6$ 6. $a_n = \frac{(-2)^{n+1}}{n+1}; a_7$

Summation notation: ex
$$\sum_{j=1}^{4} 2j$$

Write the series in expanded form then find the sum of the series

7.
$$\sum_{n=1}^{6} (n+3)$$
 8. $\sum_{i=1}^{4} (2i-3)^2$

9.
$$\sum_{i=3}^{6} \frac{1-i}{i}$$

10. $\sum_{n=0}^{3} 3^{n}$

Write the series in expanded form.





