1. Which of the following is \( 3 + 5 + 7 + 9 + \ldots + 51 \) in sigma notation? (Choose one.) 

a) \( \sum_{n=3}^{51} n \)

b) \( \sum_{n=1}^{17} 3n \)

c) \( \sum_{n=1}^{25} (2n + 1) \)

d) \( \sum_{n=1}^{26} (2n - 1) \)

2. Evaluate \( \sum_{k=2}^{5} (3k - 4)^2 \).

3. Find the common difference and the 29-th term for the following arithmetic sequence.

\[ 4, 7, 10, 13, \ldots \]

4. Find the common ratio and the 17-th term for the following geometric sequence.

\[ -48, 24, -12, 6, \ldots \]

5. Find the coefficient of the \( x^4 \) term in the binomial expansion of \( (3x - 2)^7 \).

6. Find the coefficient of the \( x^8 \) term in the binomial expansion of \( \left( x^2 - \frac{2}{x} \right)^7 \).