

Quiz 8.1 - 8.2: Sum of All Fears

Find a_0 through a_7 for the given sequences.

1. $a_n = n(n - 1)(n - 2)$

2. $a_n = \frac{3n^2}{n^2 + 1}$

3. $a_n = \frac{(6 - n)!}{n!}$

Evaluate the given expressions.

4. $\sum_{i=1}^4 3i + 7$

5. $\sum_{i=5}^8 \frac{2i}{\sqrt{i}}$

6. $4 \sum_{i=10}^{13} \frac{8 - 3n}{16}$

BONUS: What type of series is this and why? 1, 5, 9, 13, 17, 21, ...

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