

**Quiz 8.1 – 8.2: Sum of All Fears**

Find  $a_0$  through  $a_3$  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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