

Write the sum in \sum -notation.

1. $1+2+3+4+5+6$

2. $2+4+6+8+10+12$

3. $1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \frac{1}{16}$

4. $1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \frac{1}{16} - \dots$

5. $\sum_{i=4}^{13} (2i-1) = \sum_{j=1}$

6. $\sum_{n=2}^{\infty} \frac{5^n e^{-5}}{n!} = \sum_{j=5}$