Weekly Assignment 18

Write a Python program to print the summation of the following series upto N terms-

1.
$$1+(1+4)+(1+4+4^2)+(1+4+4^2+4^3)+...$$

3.
$$(3^3-2^3)+(5^3-4^3)+(7^3-6^3)+\dots$$

4.
$$1^2+(1^2+2^2)+(1^2+2^2+3^2)+\ldots$$

5.
$$\frac{1}{1\times3} + \frac{1}{3\times5} + \frac{1}{5\times7} + \frac{1}{7\times9} + \dots$$