

# Some Useful Summation Formulae

**TABLE 2** Some Useful Summation Formulae.

Sum	Closed Form
$\sum_{k=0}^n ar^k$ ( $r \neq 0$ )	$\frac{ar^{n+1} - a}{r - 1}$ , $r \neq 1$
$\sum_{k=1}^n k$	$\frac{n(n+1)}{2}$
$\sum_{k=1}^n k^2$	$\frac{n(n+1)(2n+1)}{6}$
$\sum_{k=1}^n k^3$	$\frac{n^2(n+1)^2}{4}$
$\sum_{k=0}^n x^k$ , $ x  < 1$	$\frac{1}{1-x}$
$\sum_{k=1}^n kx^{k-1}$ , $ x  < 1$	$\frac{1}{(1-x)^2}$

Geometric Series: We just proved this.

Later we will prove some of these by induction.

Proof in text (requires calculus)

# Useful Formulae

**Hussin A.Rothana**



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