

**Lim**  $\frac{1^p + 2^p + 3^p + \dots + n^p}{n^{p+1}}$  is **(2002)**

1)  $\frac{1}{p+1}$

2)  $\frac{1}{1-p}$

3)  $\frac{1}{p} - \frac{1}{p-1}$

4)  $\frac{1}{p+2}$