(3)
$$\frac{5}{5}$$
 $\frac{2}{1}$ = $1^2 + 2^2 + \cdots + \frac{2}{n}$ = $\frac{n(n+1)(2n+1)}{5} \frac{\sqrt{1}}{3}$

$$5 \frac{1}{120} = 1 + a + a^{2} + \cdots = \frac{a^{n+1}}{a-1} (a \ddagger 1)$$

(6)
$$\leq \frac{n}{2} 2' = 2^{n+1} - 1$$

(a)
$$\frac{n}{2} = 1 + \frac{1}{2} + \cdots + \frac{1}{n} = \ln n + \lambda$$
 where $\delta = 0.5772$

Enter's const.

(b) $\frac{n}{2} = \frac{1}{2} + \frac{1}{2} + \cdots + \frac{1}{n} = \ln n + \lambda$ where $\delta = 0.5772$

Enter's const.