

H.W. 4

$$2) \sum_{n=1}^{\infty} \left( \frac{1}{n!} - \frac{1}{(n+1)!} \right)$$

$$S_1 = a_1 = \frac{1}{1!} - \frac{1}{2!}$$

$$S_2 = a_1 + a_2 = \left( \frac{1}{1!} - \frac{1}{2!} \right) + \left( \frac{1}{2!} - \frac{1}{3!} \right)$$

$$S_n = a_1 + a_2 + \dots + a_n = \left( \frac{1}{1!} - \frac{1}{2!} \right) + \left( \frac{1}{2!} - \frac{1}{3!} \right) + \dots + \left( \frac{1}{n!} - \frac{1}{(n+1)!} \right)$$

$$S_n = \frac{1}{1!} - \frac{1}{(n+1)!}$$

$$\lim_{n \rightarrow \infty} \left( \frac{1}{1!} - \frac{1}{(n+1)!} \right) = \frac{1}{1!}$$

$$2) \sum_{n=0}^{\infty} \frac{1}{2^n} = 1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots$$

$$|r| = \frac{1}{2} < 1, \text{ converges to } \frac{a}{1-r} = \frac{1}{1-\frac{1}{2}} = \frac{1}{\frac{1}{2}} = 2$$

$$3) \sum_{n=0}^{\infty} \frac{(0.5)^{n+1}}{4^n} = \sum_{n=0}^{\infty} \frac{(0.5)^{n+1}}{2^{2n}} = \sum_{n=0}^{\infty} \frac{1}{2} \left( \frac{1}{2} \right)^n$$

$$a = \frac{1}{2}, \quad r = \frac{1}{2}, \quad |r| = \frac{1}{2} < 1, \text{ converges to } \frac{a}{1-r} = \frac{\frac{1}{2}}{1-\frac{1}{2}} = \frac{\frac{1}{2}}{\frac{1}{2}} = \frac{1}{2} \cdot \frac{2}{1} = 1$$

$$4) \sum_{n=2}^{\infty} \left( \frac{1}{n} + \frac{1}{n(n+1)} \right)$$

$$\text{① test for divergence: } \lim_{n \rightarrow \infty} \left( \frac{1}{n} + \frac{1}{n(n+1)} \right) = 0$$

$$\text{② } \sum_{n=2}^{\infty} \frac{1}{n^2} = \sum_{n=2}^{\infty} \left( \frac{1}{n} \right)^2, \quad a = \frac{1}{4}, \quad |r| = \frac{1}{2} < 1, \text{ converges to } \frac{a}{1-r} = \frac{\frac{1}{4}}{1-\frac{1}{2}} = \frac{\frac{1}{4}}{\frac{1}{2}} = \frac{1}{2}$$

$$\sum_{n=2}^{\infty} \frac{1}{n(n+1)} = \sum_{n=2}^{\infty} \frac{1}{n} - \frac{1}{n+1} = \sum_{n=2}^{\infty} \left( \frac{1}{n} - \frac{1}{n+1} \right) \rightarrow \text{telescoping sum}$$

$$S = A(n+1) + Bn$$

$$\text{let } n=1: S = A + B = 1$$

$$\text{let } n=0: S = A$$

$$S_1 = 1 - \frac{1}{2}$$

$$S_2 = \left( 1 - \frac{1}{2} \right) + \left( \frac{1}{2} - \frac{1}{3} \right)$$

$$S_3 = \left( 1 - \frac{1}{2} \right) + \left( \frac{1}{2} - \frac{1}{3} \right) + \left( \frac{1}{3} - \frac{1}{4} \right)$$

$$S_n = 1 - \frac{1}{n+1}$$

$$\lim_{n \rightarrow \infty} \left( 1 - \frac{1}{n+1} \right) = 1$$

$$\sum_{n=2}^{\infty} \frac{1}{n^2} = \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots$$

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