



$$1; \frac{1}{2}; \frac{1}{2^2}; \frac{1}{2^3}; \dots; \frac{1}{2^{n-1}}; \dots \quad q = \frac{1}{2} < 1$$

$$n \rightarrow \infty \quad \frac{1}{2^n} \rightarrow 0$$