

Ex 1 Find the first 4 and then the n^{th} term of the sequence

$$\text{a. } \left\{ \frac{n}{n+1} \right\}_{n=1}^{\infty} = \left\{ \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, + \dots \right\}$$

$$\text{b. } \left\{ \frac{(-1)^n}{2^n} \right\}_{n=1}^{\infty} = \left\{ -\frac{1}{2}, \frac{1}{4}, -\frac{1}{8}, \frac{1}{16}, + \dots \right\}$$

$$\text{c. } \left\{ \sqrt{n-4} \right\}_{n=4}^{10} = \{ 0,$$

$$\text{d. } \left\{ \sin \frac{n\pi}{2} \right\}_{n=1}^{\infty} = \{ 0, 1, 0, -1, 0, 1, 0, -1, + \dots \}$$

Ex 2 Find a formula for the general term a_n of the sequence $\left\{ \frac{3}{5}, \frac{-4}{25}, \frac{5}{125}, \frac{-6}{625}, \frac{7}{3125}, \dots \right\}$

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