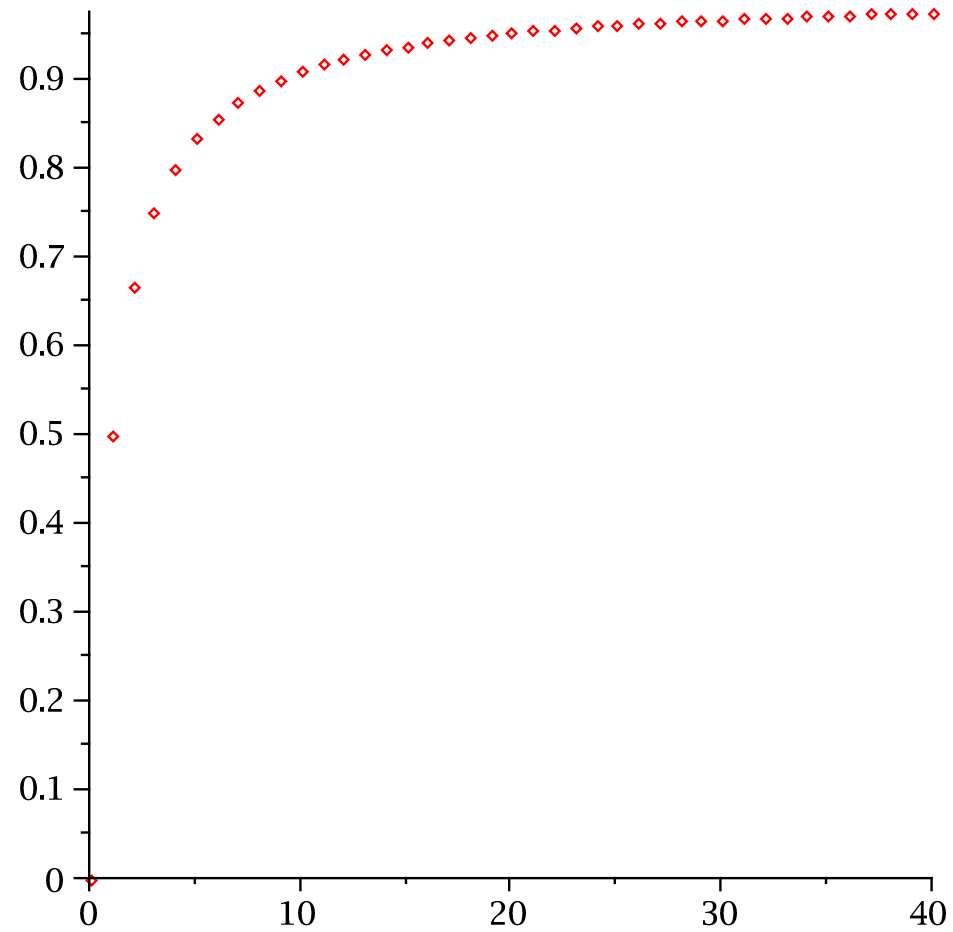


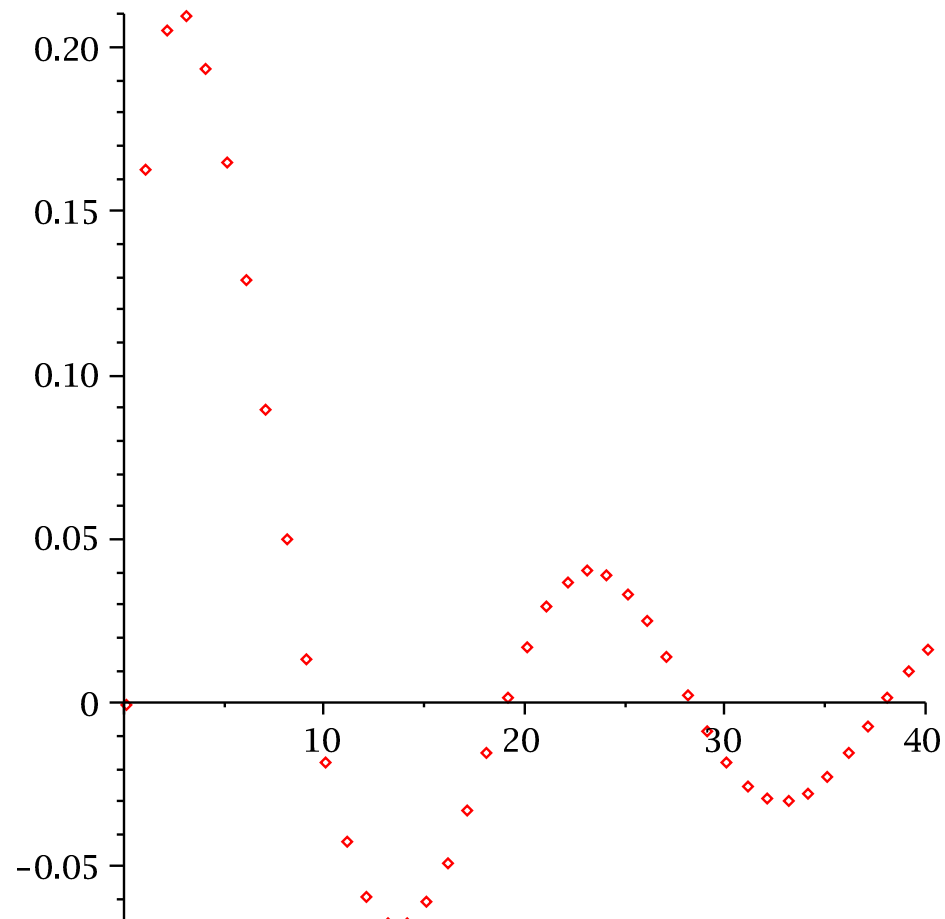
Examples of sequences

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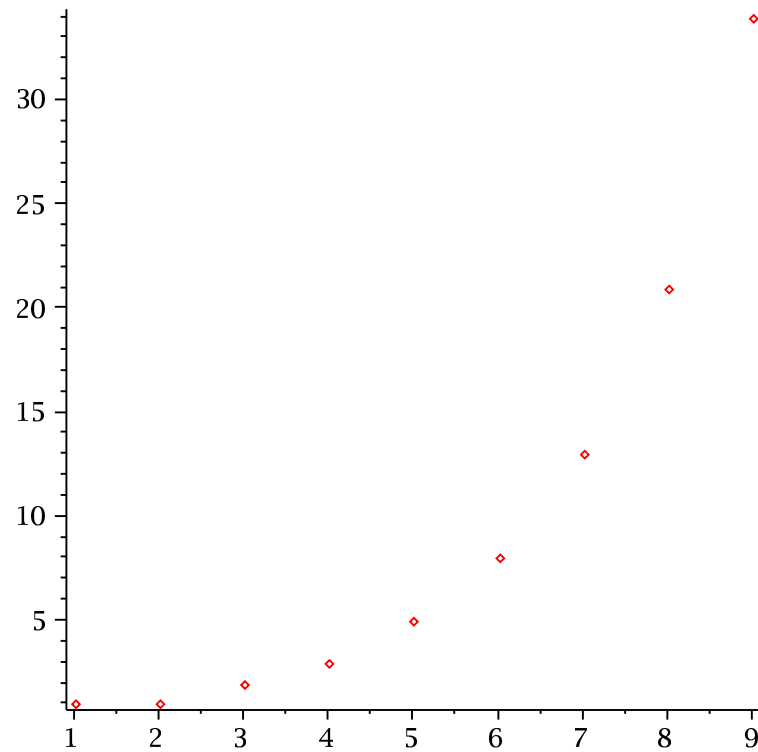
$$\left\{\frac{n}{n+1}\right\}_{n=1}^{\infty}, \quad a_n = \frac{n}{n+1}, \quad \left\{0, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \dots, \frac{n}{n+1}\right\}$$



$$\left\{ \frac{\sin(n/3)}{n+1} \right\}_{n=1}^{\infty}, \quad a_n = \frac{\sin(n+3)}{n+1}, \quad \{ \sin(3), \sin(4)/2, \dots, \frac{\sin(n+3)}{n+1}, \dots \}$$

Fibonacci sequence $\{f_n\}_{n=1}^{\infty}$:

$$f_1 = f_2 = 1, \quad f_n = f_{n-1} + f_{n-2}, n \geq 3$$



'Rescaled' Fibonacci sequence $\{a_n = f_n/\alpha^n\}_{n=1}^{\infty}$,
 $\alpha = \frac{1+\sqrt{5}}{2}$ the **Golden Mean**

