Calcul sumelor cu termen general dat

$t_0 = 1$

1) $t_n = \frac{1}{2}\left(t_{n-1} + \frac{a}{t_{n-1}}\right)$ unde $n \geq 1$ și $a \in \mathbb{R}_+$

(fapt divers: $\lim_{n\to\infty} t_n = \sqrt{a}$)

2) $S_n = \frac{a^0}{0!} + \frac{a^1}{1!} + \frac{a^2}{2!} + \frac{a^3}{3!} + \dots \frac{a^n}{n!}$ unde $a \in \mathbb{R}_+$

(fapt divers: $\lim_{n\to\infty} S_n = e^a$)