Exercises

E18.1 [IKM] Let $b \in \mathbb{R}$, $n \in \mathbb{N}$. Assuming that $f(t) = \sum_{k=0}^{\infty} a_k t^k$ with radius of convergence r positive and $t \in (-r, r)$, determine the coefficients a_k so as to satisfy the following differential equations.,

(The last two are called *Bessel equations*). [[1KN]]

Solution 1. [1KP]