$Math\ 424$

- Homework: Due on 3/61) a) Prove that $\{\frac{\sin{(\Omega t j\pi)}}{\Omega t j\pi}\}_{j=-\infty}^{\infty}$ is an orthogonal system in $L^2(\mathbb{R})$.
 b) Prove that the series (23) in Theorem 2.23 (Shannon -Whittaker Sampling Theorem) converges also in $L^2(\mathbb{R})$. (See page 118 of the textbook).