

Sampling Theorem:

$$g(t) = \sum_{i=-\infty}^{\infty} g\left(\frac{i}{2W}\right) \text{sinc}(2Wt - i)$$

Proposition 11.30 $\psi_i(t)$, $-\infty < i < \infty$ form an orthonormal basis for signals which are bandlimited to $[0, W]$.