

Using equation 4,

$$G_{\delta}(f) = G(f) * f_s \sum_{n=-\infty}^{\infty} \delta(f - nf_s)$$

$$G_{\delta}(f) = f_s \sum_{n=-\infty}^{\infty} G(f - nf_s) \quad \text{-----} \quad \text{.....5}$$

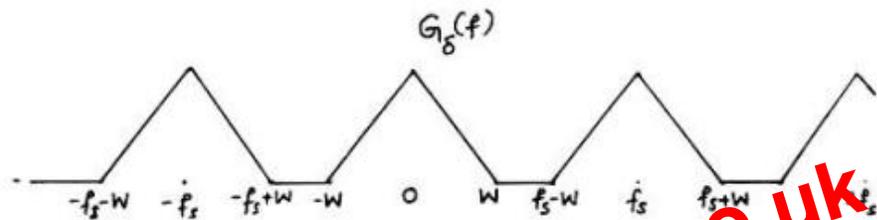
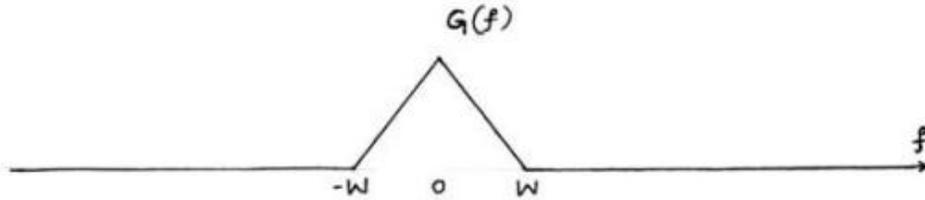


Fig: [Over Sampling (\$f_s > 2W\$)]

Preview from Notesale.co.uk
Page 3 of 8

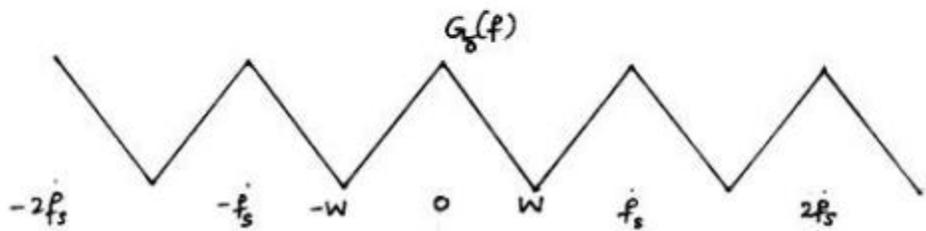
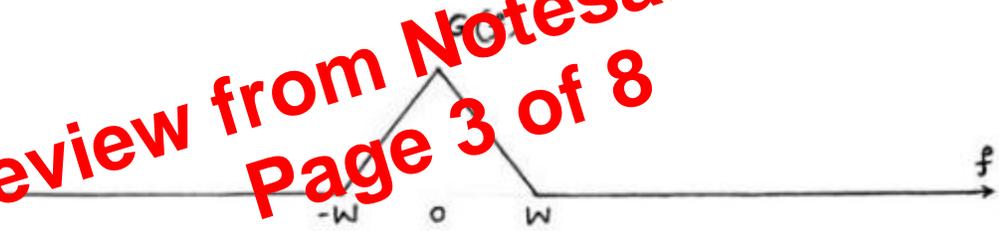


Fig: [Nyquist Rate Sampling (\$f_s = 2W\$)]