

Example

$$x_4[n] = 3e^{j(3/5)(n+0.5)}$$

$$x_4[n] = x_4[n+N]$$

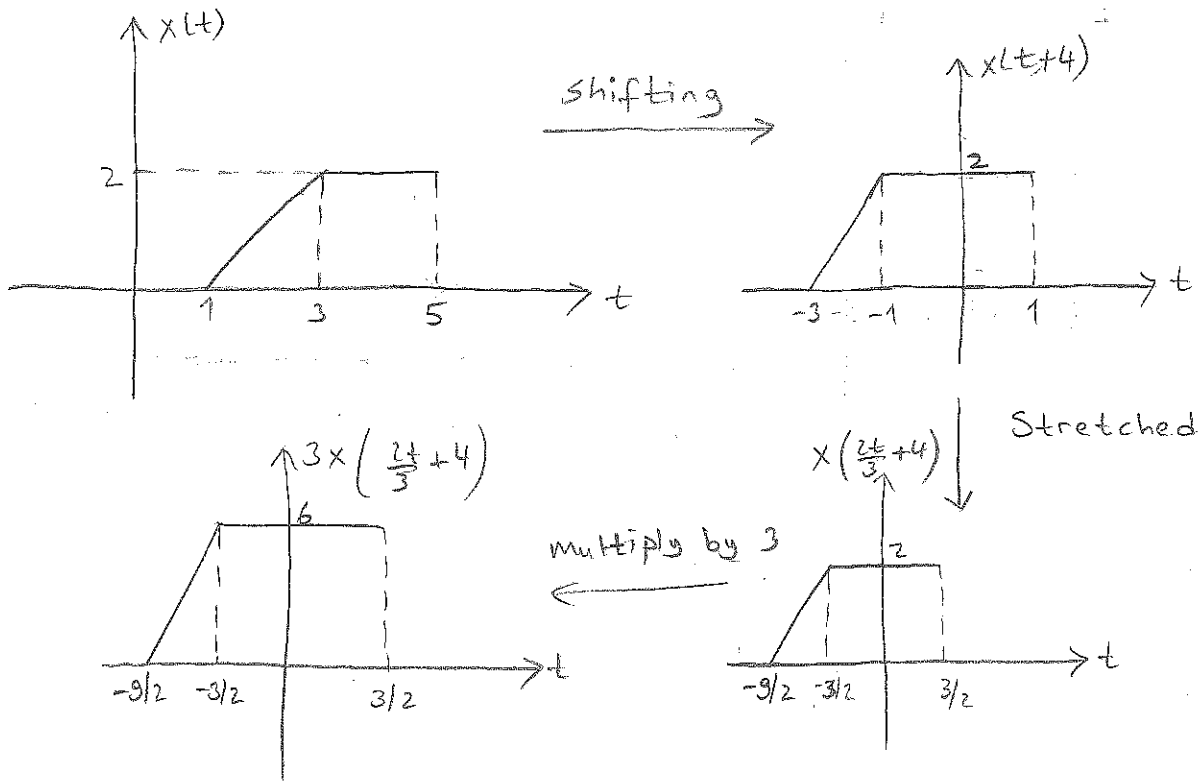
$$3e^{j(3/5)(n+0.5)} = 3e^{j(3/5)(n+0.5)} \cdot e^{j(3/5)(N)}$$

$$e^{j(3/5)(N)} = 1 = e^{j2\pi m}$$

$$(3/5)N = 2\pi m \Rightarrow \frac{3N}{5} = 2\pi m \Rightarrow \boxed{N = \frac{10\pi m}{3}} \text{ Non-periodic}$$

Example

Plot the graph of $f(t) = 3x\left(\frac{2t}{3} + 4\right)$



Example

$g(t) = f\left(\frac{t-1}{2}\right)$ is evaluated from the periodic signal $f(t)$ given so plot the graph of $g(t)$

