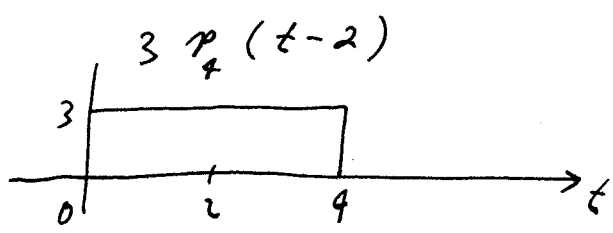
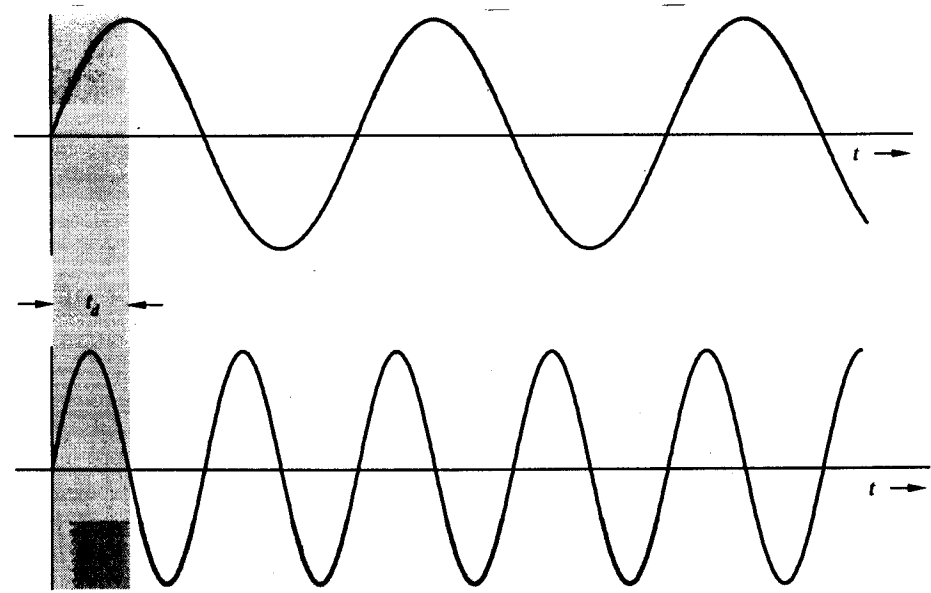


Time Shift:



F.T. $\Rightarrow (12 \text{ sinc } \frac{2\omega}{\pi}) \cdot e^{-j\omega 2}$

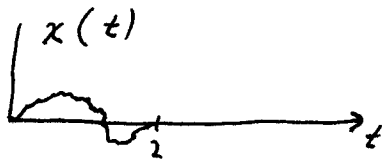
Time shift $t_d \Rightarrow$ Linear phase shift $- \omega t_d$:



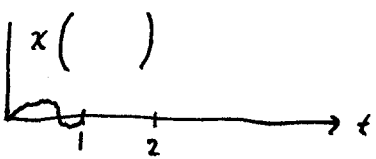
Time scaling: Expanding/contracting in one domain has the opposite effect in the other domain.

Ex: Let $x(t)$ be signal from an audio tape. What if play tape faster + slower?

Play at normal speed



Play at 2x speed



Play at 1/2 x speed

