Illustrate forward and backward wave propagation of $\mathcal{E}_x$

Define some constants

$u := 3 \cdot 10^8$ (m/s) $\quad Efwd := 1$ (V/m) $\quad Ebwd := 1$ (V/m)

$\omega := 2 \cdot \pi \cdot 60$ (rad/s) $\quad \lambda := 2 \cdot \pi \cdot \frac{u}{\omega}$ (m) $\quad \beta x := \frac{\omega}{u}$ (rad/m) $\quad T := \frac{2\pi}{\omega}$ (s)

Define functions for forward and backward components of the $\mathcal{E}_x$ wave

$Ex\_fwd(x,t) := Efwd \cdot \cos(\omega \cdot t - \beta x \cdot x) \quad Ex\_bwd(x,t) := Ebwd \cdot \cos(\omega \cdot t + \beta x \cdot x)$

$n := 0 .. 60 \quad x_n := \frac{1.5 \cdot \lambda \cdot n}{60}$ Show 1.5 wavelengths