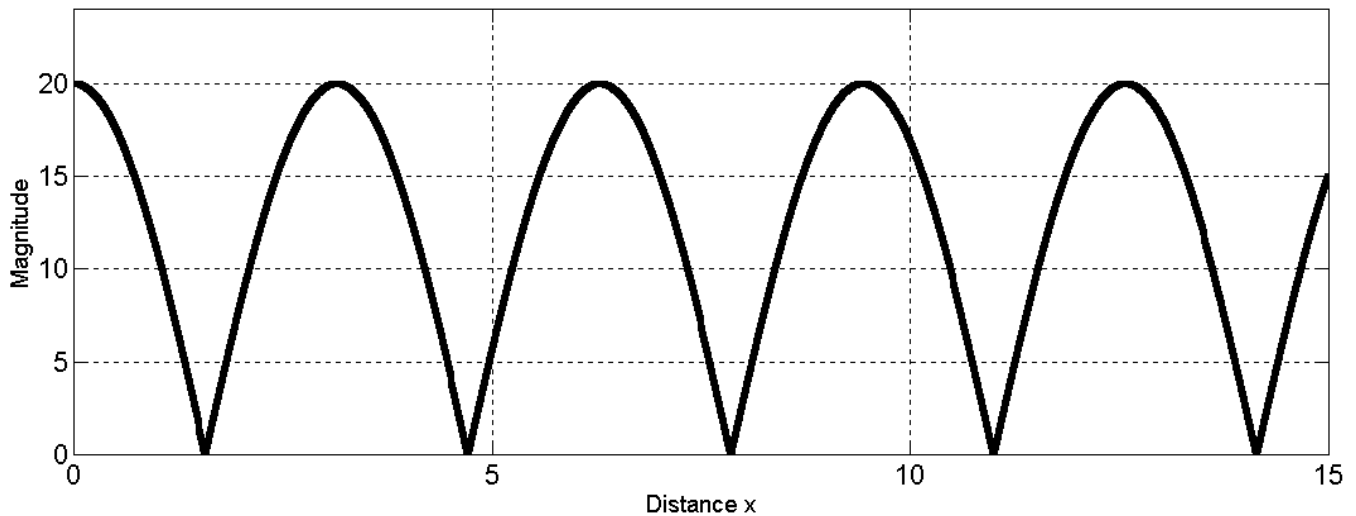


STANDING WAVES

Two identical waves traveling in opposite directions will cause constructive and destructive interference:

$$p(x, t) = \underbrace{p_1 e^{j(\omega t - kx)}}_{\text{moving right}} + \underbrace{p_2 e^{j(\omega t + kx)}}_{\text{moving left}}$$

for $p_1=p_2=10$, $k=1$, $t=0$:



for $p_1=5$, $p_2=10$, $k=1$, $t=0$:

