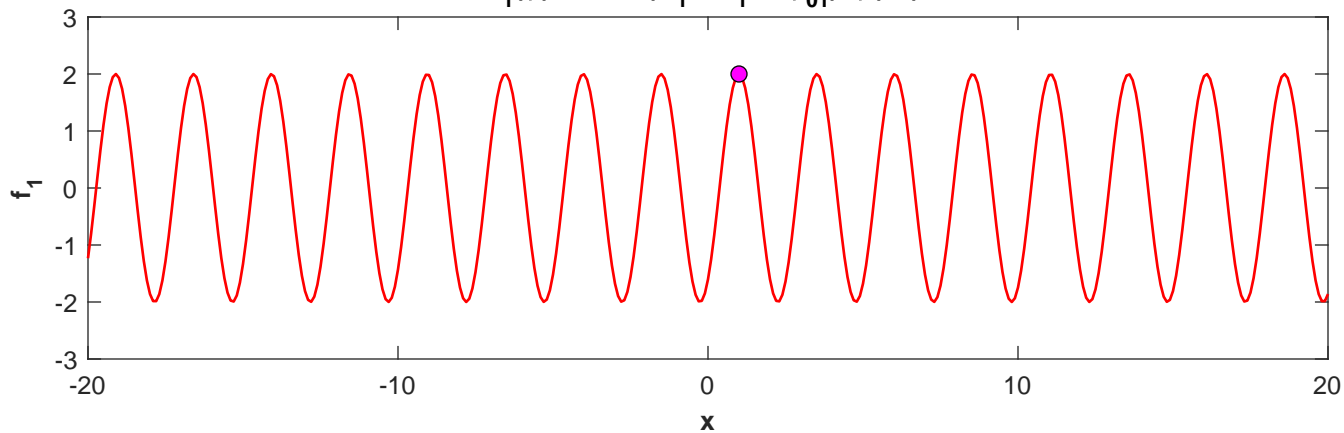
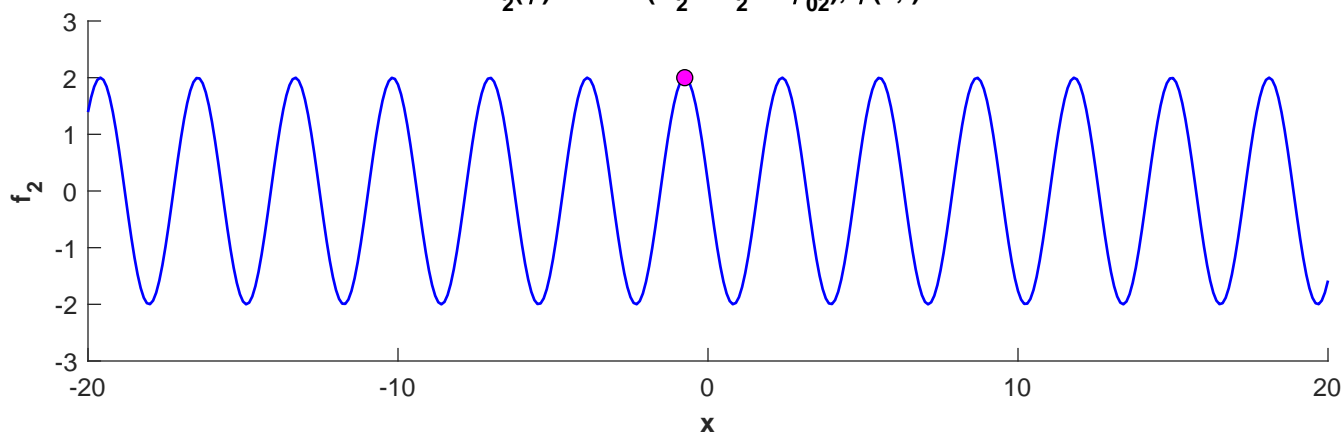


**t = 1**

$$f_1(\phi) = \text{Acos}(\omega_1 t - k_1 x - \phi_{01}), \phi(x,t)$$



$$f_2(\phi) = \text{Acos}(\omega_2 t - k_2 x - \phi_{02}), \phi(x,t)$$



$$f_3(\phi) = f_2(\phi) + f_1(\phi), \phi(x,t)$$

