

Problem 1.2 For the pressure wave described in Example 1-1, plot

(a) $p(x, t)$ versus x at $t = 0$,

(b) $p(x, t)$ versus t at $x = 0$.

Be sure to use appropriate scales for x and t so that each of your plots covers at least two cycles.

Solution: Refer to Fig. P1.2(a) and Fig. P1.2(b).

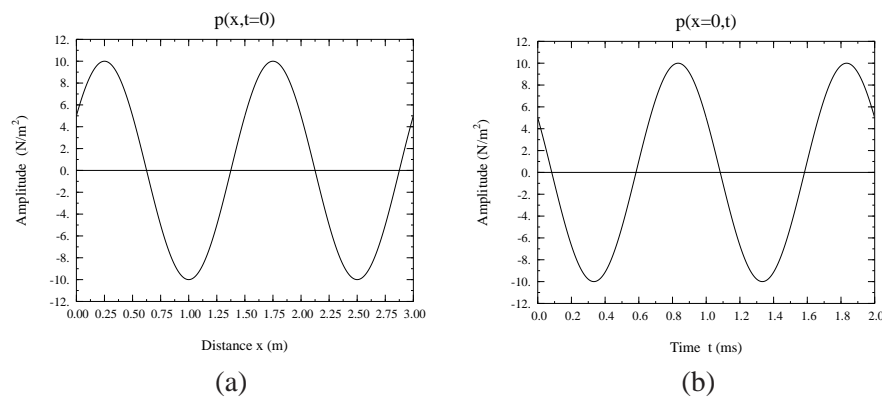


Figure P1.2: (a) Pressure wave as a function of distance at $t = 0$ and (b) pressure wave as a function of time at $x = 0$.