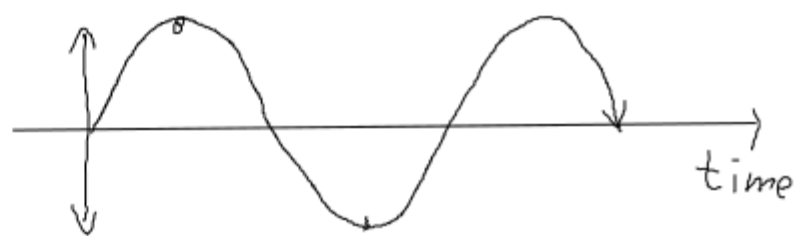


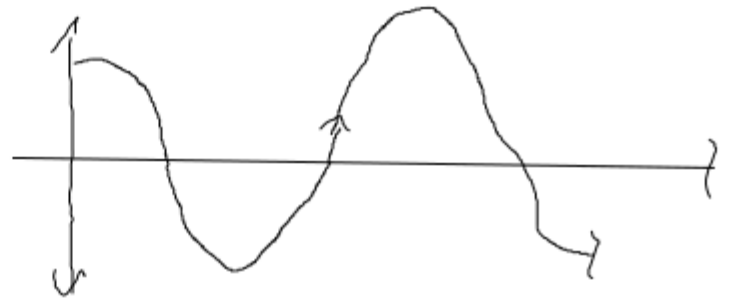
distance

amplitude
(dist. / sec)



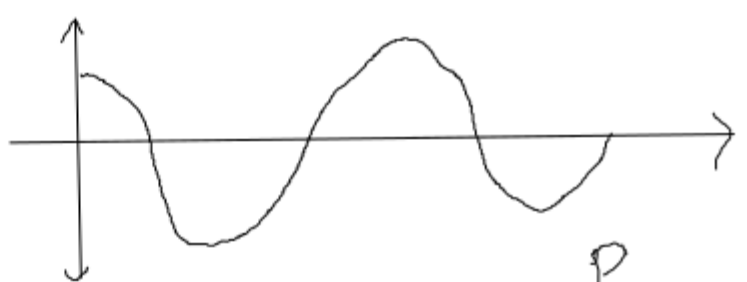
$$a(t) = a_0 \sin(2\pi f t)$$

$$v(t) = 2\pi f a_0 \cos(2\pi f t)$$



$$p(t) = p_0 \cos(2\pi f t)$$

$$v(t) = \frac{c}{\rho a} \cdot p(t)$$

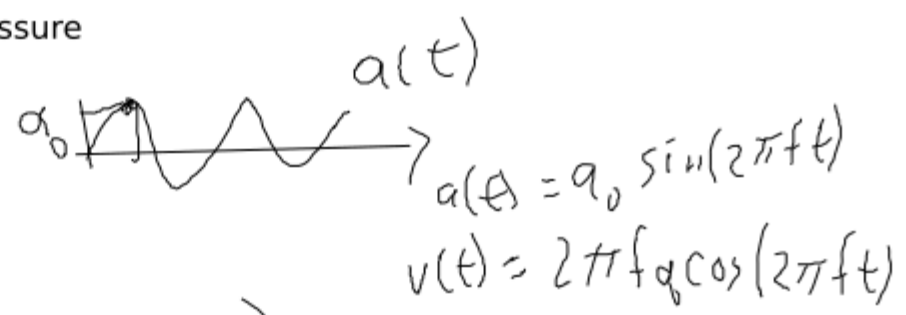
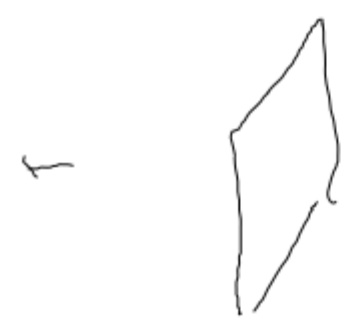


$$p(t) = \frac{\rho}{c} v(t)$$

ρ pressure ρ (rho) density

p_0 peak pressure

p_a atmospheric pressure



$$I(t) = p(t) \cdot v(t)$$

$$I(t) = \frac{\rho a}{c} v^2(t)$$