

However,

$$\frac{d}{dx} \left[ \frac{dx}{dt} \right] \frac{dx}{dt} = \left[ \frac{d^2x}{dt^2} \right] \frac{dt}{dx} \cdot \frac{dx}{dt} = \frac{d^2x}{dt^2}.$$

Hence

$$\frac{d^2y}{dt^2} = \frac{d^2y}{dx^2} \left[ \frac{dx}{dt} \right]^2 + \frac{dy}{dx} \frac{d^2x}{dt^2}.$$

(b) Substituting the results in part (a) into the general differential equation,  $y'' + p(t)y' + q(t)y = 0$ , we find that

$$\frac{d^2y}{dx^2} \left[ \frac{dx}{dt} \right]^2 + \frac{dy}{dx} \frac{d^2x}{dt^2} + p(t) \frac{dy}{dx} \frac{dx}{dt} + q(t)y = 0.$$

Collecting the terms,

$$\left[ \frac{dx}{dt} \right]^2 \frac{d^2y}{dx^2} + \left[ \frac{d^2x}{dt^2} + p(t) \frac{dx}{dt} \right] \frac{dy}{dx} + q(t)y = 0.$$

(c) Assuming  $(dx/dt)^2 = kq(t)$ , and  $q(t) > 0$ , we find that  $dx/dt = \sqrt{kq(t)}$ , which can be integrated. That is,  $x = u(t) = \int \sqrt{kq(t)} dt = \int \sqrt{q(t)} dt$ , since  $k = 1$ .

(d) Let  $k = 1$ . It follows that  $d^2x/dt^2 + p(t)dx/dt = du/dt + p(t)u(t) = q'/2\sqrt{q} + p\sqrt{q}$ . Hence

$$\left[ \frac{d^2x}{dt^2} + p(t) \frac{dx}{dt} \right] / \left[ \frac{dx}{dt} \right]^2 = \frac{q'(t) + 2p(t)q(t)}{2[q(t)]^{3/2}}.$$

As long as  $dx/dt \neq 0$ , the differential equation can be expressed as

$$\frac{d^2y}{dx^2} + \left[ \frac{q'(t) + 2p(t)q(t)}{2[q(t)]^{3/2}} \right] \frac{dy}{dx} + y = 0.$$

(e) To find the analogue to the condition found in part d) for the case when  $q(t) < 0$  we return to the conditions that make the coefficients on  $y$ ,  $dy/dt$  and  $d^2y/dt^2$  proportional to each other. Since the coefficients on  $y$  and  $d^2y/dt^2$  are proportional,  $(dx/dt)^2 = \alpha q(t)$ , and we may take  $\alpha = -1$ . Thus  $dx/dt = (-q(t))^{1/2}$  and  $d^2y/dt^2 = (-q'/2)(-q)^{-1/2}$ . Since the coefficients on  $y$  and  $dy/dt$  are proportional, there is a constant  $\beta$  with

$$\beta q = \frac{d^2y}{dt^2} + p(t) \frac{dy}{dt} = \frac{-q'}{2}(-q)^{-1/2} + p(-q)^{1/2} = \frac{-q' - 2pq}{2(-q)^{1/2}}$$

and dividing each side of the equation by  $-q$  gives

$$-\beta = \frac{-q' - 2pq}{2(-q)^{3/2}}, \text{ or } 2\beta = \frac{q' + 2pq}{(-q)^{3/2}}.$$

Thus the desired condition is that  $(q' + 2pq)/(-q)^{3/2}$  must be a constant.

# Elementary Differential Equations Boyce Solutions Manual

**S Ashworth**



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