

34. Note that $p(t) = 3t$ and $q(t) = t^2$. We have $x = \int t \, dt = t^2/2$. Furthermore,

$$\frac{q'(t) + 2p(t)q(t)}{2[q(t)]^{3/2}} = \frac{1 + 3t^2}{t^2}.$$

The ratio is not constant, and therefore the equation cannot be transformed.

35. Note that $p(t) = t - 1/t$ and $q(t) = t^2$. We have $x = \int t \, dt = t^2/2$. Furthermore,

$$\frac{q'(t) + 2p(t)q(t)}{2[q(t)]^{3/2}} = 1.$$

The ratio is constant, and therefore the equation can be transformed. From Problem 32, the transformed equation is

$$\frac{d^2y}{dx^2} + \frac{dy}{dx} + y = 0.$$

Based on the methods in this section, the characteristic equation is $r^2 + r + 1 = 0$, with roots $r = (-1 \pm i\sqrt{3})/2$. The general solution is $y(x) = c_1 e^{-x/2} \cos \sqrt{3}x/2 + c_2 e^{-x/2} \sin \sqrt{3}x/2$. Since $x = t^2/2$, the solution in the original variable t is

$$y(t) = e^{-t^2/4} \left[c_1 \cos(\sqrt{3}t^2/4) + c_2 \sin(\sqrt{3}t^2/4) \right].$$

36. Note that $p(t) = t$ and $q(t) = -e^{-t^2} < 0$ for $-\infty < t < \infty$. To proceed we must confirm that $(q' + 2pq)/(-q)^{3/2}$ is a constant:

$$\frac{q' + 2pq}{(-q)^{3/2}} = \frac{2te^{-t^2} + 2t(-e^{-t^2})}{(e^{-t^2})^{3/2}} = 0.$$

Thus the differential equation can be transformed into an equation with constant coefficients by letting $x = u(t) = \int e^{-t^2/2} dt$. Substituting $x = u(t)$ in the differential equation found in part (b) of Problem 32 we obtain, after dividing by the coefficient of d^2y/dx^2 , the differential equation $(d^2y/dx^2) - y = 0$. Hence the general solution of the original differential equation is $y(t) = c_1 e^{x(t)} + c_2 e^{-x(t)}$, where $x(t) = \int e^{-t^2/2} dt$.

3.4

2. The characteristic equation is $9r^2 + 6r + 1 = 0$, with the double root $r = -1/3$. The general solution is $y(t) = c_1 e^{-t/3} + c_2 t e^{-t/3}$.

3. The characteristic equation is $4r^2 - 4r - 3 = 0$, with roots $r = -1/2, 3/2$. The general solution is $y(t) = c_1 e^{-t/2} + c_2 e^{3t/2}$.

5. The characteristic equation is $r^2 - 6r + 9 = 0$, with the double root $r = 3$. The general solution is $y(t) = c_1 e^{3t} + c_2 t e^{3t}$.

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R Sandford



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