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 $d + b Q^2 = \frac{1}{3} 2, a = \arccos Q'$  and  $C_1 + a) + c_1 e^{-k}$   
 $(d+b)t, w \cdot c - a / \sqrt{kq} = P_0 - d + b - 17$ . Elementary Differential  
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 equation in standard form is  $y' + p(x)y = q(x)$ . Thus the  
 integrating factor is  $\exp(\int p(x) dx) = \exp(\ln x - \ln(\sec x)) = a \cos x$ .  
 Multiplying by the integrating factor we have  $(a \cos x)y' + a \sin x y = a \cos x q(x)$ .  
 $\frac{d}{dx}(a \cos x y) = a \cos x q(x)$ . Integrating yields  $ry \cos x = c + \cos x + r \sin x$ .  
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 $y' + p(x)y = q(x)$ . Integrating both sides of the  
 equation, we obtain  $\int (y' + p(x)y) dx = \int q(x) dx$ .  
 Imposing the given initial condition, the specific solution is  
 $y = \frac{1}{C} \int C q(x) dx + C^{-1}$ . Therefore,  $y = \frac{1}{C} \int C q(x) dx + C^{-1}$ .  
 Observe that the solution is defined as long as  $C \neq 0$ . It is easy to  
 see that  $C = 0$  is not a solution. Furthermore, for and Hence  $y = \frac{1}{C} \int C q(x) dx + C^{-1}$ .  
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 1.1.2 (i)  $\gamma(t) = (\sec t, \tan t)$  with  $-\pi/2 < t < \pi/2$  and  $\pi/2 < t < 3\pi/2$ . Note  
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