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$x^3 = 2\cos x$ ,  $Cx_1 = 2\sin x$ ,  $C^3 + C^4$ ,  $x_1 = 2\cos x$ ,  $x_1 = 2\sin x$ ,  $1 + 2$   
 $x_1 = 2\cos x$ ,  $Cx_3 = 2\cos x$ ,  $1 + 4$ ,  $x_1 = 2\cos x$ ,  $C^4 + C$ ,  $x^2$ ,  $1 + 4$   
 $.4x^8/D$ ,  $4x^3C^8x^2C$ ,  $3x^2$ ,  $1.2.4$ . (a) If  $y_0 = x e^x$ ,  
then  $y' = x e^x + e^x = e^x(x+1)$ ,  $y = \int e^x(x+1) dx = e^x(x/2 + x + C)$ ,  
 $y = e^x(x/2 + x + C)$ , so  $C = 0$  and  $y = e^x(x/2 + x)$ . (b) If  $y_0 = x \sin x^2$ ,  
then  $y' = x^2 \cos x^2 + 2x \sin x^2$ ;  $y = \int (x^2 \cos x^2 + 2x \sin x^2) dx = \frac{1}{3} \sin x^2 + \frac{1}{2} \cos x^2 + C$ ,  
 $y = \frac{1}{3} \sin x^2 + \frac{1}{2} \cos x^2 + C$ , so  $C = \frac{1}{2}$  and  $y = \frac{1}{3} \sin x^2 + \frac{1}{2} \cos x^2$ .

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examples below: Definition used: The first  
order linear equation is of the form  
 $dy/dt + p(t)y = q(t)$  where  $p$  and  $q$  are... Formula  
used: The known trigonometric identity is  
that  $\cos A \cos B = \frac{1}{2}(\cos(A+B) + \cos(A-B))$ .

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and simplifying yields  $y/\sin z = -\cot z + C$   
 $y = C\sin z - \cos z$ . The equation in standard form is  $dy/dz + (1/\cos z)y = \cos z$ . Thus the integrating factor is  $\exp(\int \sec z dz) = \exp(\ln|\sec z + \tan z|) = \sec z + \tan z$ . Multiplying by the integrating factor we have  $d(y(\sec z + \tan z)) = \cos z(\sec z + \tan z) dz = (1 + \sin z) dz$ .  
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Trench, William F., "Student Solutions Manual for Elementary Differential Equations and Elementary Differential Equations with Boundary Value Problems" (2000). Faculty Authored and Edited Books & CDs. 10.

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This is the question of uniqueness. In general, solutions of differential equations contain one or more arbitrary constants of

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integration, as does the solution (16) of Eq. (15). Equation (16) represents an infinity of functions corresponding to the infinity of possible choices of the constant  $c$ .

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