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Thus the integrating factor is  $\exp(\int \sec x \tan x dx) = \sec x + \tan x$ .  
Multiplying by the  
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$y/\sin z = \frac{1}{\cos z} + \cos z = \csc z + \cos z$ .  
The equation in standard form is  
 $dy + (1/\cos x)y = \cos x$ . Thus the  
integrating factor is  $\exp(\int \sec x dx =$   
 $\exp[\ln(\sec x + \tan x)] = \sec x + \tan x$ .  
Multiplying by the integrating factor  
we have  $(\sec x + \tan x)y = 1 + \sin x$ .

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$$x^3 = 2 \sin x \quad x^1 = 2 \cos x \quad C^3 \quad 4$$

$$x^1 = 2 \sin x \quad C x^1 = 2 \cos x \quad 1 \quad 2$$

$$x^1 = 2 \sin x \quad C x^3 = 2 \sin x \quad 1 \quad 4 \quad x^1 = 2 \sin x \quad C c^2.$$



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$x^3 = 2\cos x$   $Cx^1 = 2\sin x$   $C^3 = 4$   $x^1 = 2\cos x$   
 $x^1 = 2\sin x$   $1/2 x^1 = 2\cos x$   $Cx^3 = 2\cos x$   $1/4$   
 $x^1 = 2\cos x$   $C^4 x^C x^2$   $1/4$   $.4x^C 8/D$   
 $4x^3 C^8 x^2 C^3 x^2$  1.2.4. (a) If  $y_0 = D x e^x$ ,  
then  $y_D = x e^x$   $C^R e^x dx C^c D$   $.1 x/e^x C^c$ , and  
 $y_0/D = 1) 1/D = 1/C^c$ , so  $c/D = 0$  and  $y_D = .1 x/e^x$ .

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(Author) Phillip E. Bedient (Author)

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Publication € Date 1989 Edition €

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differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications. While the general structure of the book remains unchanged, some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications. In addition to expanded explanations, the 11th edition includes new problems, updated figures and examples to help motivate students. The program is primarily intended for undergraduate students of mathematics, science, or engineering, who typically take a course on differential equations during their first or second year of study. The main prerequisite for engaging with the program is a

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Appropriate for introductory courses in Differential Equations. This clear, concise fairly easy classic text is particularly well-suited to courses that emphasize finding solutions to differential equations where applications play an important role. Many illustrative examples in each chapter help the student to understand the subject. Computer applications new to this edition.

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