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$y(x) = \frac{1}{2} \cos(2x) + c \frac{1}{2} \sin(2x)$   
 $y(x) = \frac{1}{2} \cos(2x) + c \frac{1}{2} \sin(2x)$  In other words, regardless of the value of  $c$   $\frac{1}{2}$   $\frac{1}{2}$  we get a solution and so, in this case we get infinitely many solutions to the boundary value problem. Example 3 Solve the following BVP.  $y'' + 4y = 0$   $y(0) = \frac{1}{2}$   $y(2) = 3$ .

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## Differential Equations - Boundary Value Problems

In mathematics, in the field of differential equations, a boundary value problem is a differential equation together with a set of additional constraints, called the boundary conditions. A solution to a boundary value problem is a solution to the differential equation which also satisfies the boundary conditions.

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## REVIEW OF DIFFERENTIATION

In mathematics, in the field of differential equations, a boundary value problem is a differential equation together with a set of additional constraints, called the boundary conditions. A solution to a boundary value problem is a solution to the differential equation which also satisfies the boundary conditions. Boundary value problems arise in several branches of physics as any

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physical differential equation will have them. Problems involving the wave equation, such as the determination of nor

Boundary value problem - Wikipedia  
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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Equations (2.1b) and (2.2b) are called boundary conditions (BCs) since information is provided at the ends of the interval, i.e., at  $x=a$  and  $x=b$ . The conditions (2.1b) and (2.2b) are called nonseparated BCs since they can involve a combination

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