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Solutions to Boundary Value Problems

- To solve the boundary value problem,

  $$y'' + p(x)y' + q(x)y = g(x), \quad y(\alpha) = y_0, \; y(\beta) = y_1$$

  we need to find a function $y = \phi(x)$ that satisfies the differential equation on the interval $\alpha < x < \beta$ and that takes on the specified values y_0 and y_1 at the endpoints.

- Initial value and boundary value problems may superficially appear similar, but their solutions differ in important ways.

- Under mild conditions on the coefficients, an initial value problem is certain to have a unique solution.

- Yet for similar conditions, boundary value problems may have a unique solution, no solution, or infinitely many solutions.

- In this respect, linear boundary value problems resemble systems of linear algebraic equations.

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Boundary Value Problems And Their Solutions