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which is both easily

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sufficiently modern.

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CHAPTER 5.

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VARIATIONS space.

In this case, such a

function would be the

discontinuous solution,

with  $y(x) = y_1$  if  $x = x_1$

0 if  $x_1 < x < x_2$   $y_2$  if  $x =$

$x_2$ .



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from a set of functions  
to the real numbers.

Functionals are often  
expressed as definite

integrals involving

functions and their

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that maximize or

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- Compute variation of the functional considering 2 candidate solutions:  $x(t)$ , which we consider to be a perturbation of the

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optimal  $x(t)$  (that we need to find)  $J(x(t), \dot{x}(t)) = [g(x(t), \dot{x}(t))] dt + g(x(t_f), \dot{x}(t_f)) - g(x(t_0), \dot{x}(t_0))$

Integrate by parts to get:  
$$\int_{t_0}^{t_f} \frac{d}{dt} J(x(t), \dot{x}(t)) dt = g(x(t_f), \dot{x}(t_f)) - g(x(t_0), \dot{x}(t_0)) + \int_{t_0}^{t_f} \frac{d}{dt} g(x(t), \dot{x}(t)) dt$$

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