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simple but  
important  
example,  
consider the  
problem of  
solving a  
nonlinear  
equation  $f(x)$   
 $= 0$ .  
Approximate  
the graph of  
 $y = f(x)$  by the  
tangent line at  
a point  $x(0)$   
near the  
desired root,  
and use the  
root of the  
tangent line to  
approximate  
the root of the  
original  
nonlinear  
function  $f(x)$ .  
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study of  
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$f(x)$  This is an example of vectorization, i.e. putting several numbers into a vector and treating the vector all at once. *Introduction to numerical analysis | Coursera*

As a simple but important example, consider the problem of solving a nonlinear equation  $f(x) = 0$ .

Approximate the graph of  $y = f(x)$  by the tangent line at a point  $x(0)$  near the desired root, and use the root of the tangent line to

approximate the root of the original nonlinear function  $f(x)$ .

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