Gradient Checking

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Gradient checking will assure that our backpropagation works as intended. We can approximate the derivative of our cost function with:

Graphical user interface, text, application, email

Description automatically generated

We previously saw how to calculate the deltaVector. So once we compute our gradApprox vector, we can check that gradApprox ≈ deltaVector.

Once you have verified **once** that your backpropagation algorithm is correct, you don't need to compute gradApprox again. The code to compute gradApprox can be very slow.