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Gradient Descent:

The governing formula for this method is =- and we need to update the value for alpha in each iteration based on . ( I did this in a while loop)

Convergence criterion is:

Gradient Descent with line search:

The governing formula for this method is =- and we need to update the value for alpha in each iteration based on the formula that is derived below. ( I did this in a while loop )

Conjugate Gradient:

The governing formulas are =+ and that need to be updated in each while loop. Equation for alpha and beta are mentioned below.



