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```
function plot_cg(residue_vector, dimension)
```

PLOT_CG Introduction

Plots the residual norm over the number of iterations needed for convergence in the CG method.

residue_vector: the norm of the residue at every iteration of the CG method.

dimension: the dimension of the nxn matrix A

Establishing Plot Vectors

```
x1 = 0:1:length(residue_vector)-1;  
x2 = residue_vector;
```

Establishing Graph Components

```
header = ["CG method residual in " + dimension + " dimensions"];  
  
xlab = "Iterations";  
ylab = "Residual 2-Norm";
```

Printing Results

```
hold on  
box on  
grid on  
  
title(header);  
xlabel(xlab);  
ylabel(ylab);  
  
minline = plot(x1,x2);  
minline.Color = 'b';  
minline.LineWidth = 1.5;  
axis tight  
  
end
```

Published with MATLAB® R2018b