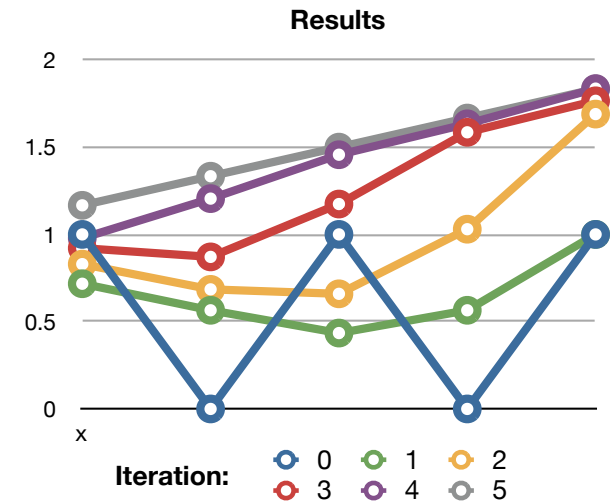


Iteration:	0	1	2	3	4	5	
<b>Ap</b>		-4	0.086011342	-0.002933454	-0.297896296	0.364129987	-1.11369E-15
		7	-0.079867675	-0.243476686	0.444710517	0.036412999	1.83881E-15
		-8	-0.110586011	0.299212313	0.247535604	-0.109238996	-2.12677E-15
		6	0.012287335	0.541222273	-0.34612306	0.036412999	1.81799E-15
		-2	0.74952741	-0.419483929	0.123767802	-0.054619498	-1.04083E-15
<b>α</b>		0.282608696	1.219639935	0.960847015	0.738161484	0.681751288	0.269746751
<b>x</b>	1	0.717391304	0.829787234	0.921391753	0.978413384	1.166666667	1.166666667
	0	0.565217391	0.685106383	0.871134021	1.205072855	1.333333333	1.333333333
	1	0.434782609	0.659574468	1.173969072	1.456556935	1.5	1.5
	0	0.565217391	1.029787234	1.585051546	1.633567188	1.666666667	1.666666667
	1	1	1.689361702	1.765463918	1.835402051	1.833333333	1.833333333
<b>Ax</b>	2						
	-2						
	2						
	-2						
	2						
<b>r</b>	-1	0.130434783	0.025531915	0.028350515	0.248246087	-3.33067E-16	-3.2652E-17
	2	0.02173913	0.119148936	0.353092784	0.024824609	4.47559E-16	-4.84535E-17
	-2	0.260869565	0.395744681	0.108247423	-0.074473826	-6.10623E-16	-3.69331E-17
	2	0.304347826	0.289361702	-0.230670103	0.024824609	4.57967E-16	-3.243E-17
	0	0.565217391	-0.34893617	0.054123711	-0.037236913	-2.91434E-16	-1.06719E-17
<b>β</b>		0.038279773	0.757477452	0.512891457	0.360989984	1.40242E-29	0.006072463
<b>p</b>	-1	0.092155009	0.095337257	0.07724818	0.276131907	-3.33067E-16	-3.46745E-17
	2	0.098298677	0.193607967	0.452392656	0.188133827	4.47559E-16	-4.57357E-17
	-2	0.184310019	0.535355364	0.382826615	0.063722748	-6.10623E-16	-4.06411E-17
	2	0.380907372	0.577890448	0.065724971	0.048550665	4.57967E-16	-2.9649E-17
	0	0.565217391	0.079203259	0.094746386	-0.003034417	-2.91434E-16	-1.24417E-17

<b>b</b>	1
	0
	0
	0
	2



```

r0 := b - Ax0
p0 := r0
k := 0
repeat
  αk :=  $\frac{\mathbf{r}_k^T \mathbf{r}_k}{\mathbf{p}_k^T \mathbf{A} \mathbf{p}_k}$ 
  xk+1 := xk + αk pk
  rk+1 := rk - αk A pk
  if rk+1 is sufficiently small then exit loop end if
  βk :=  $\frac{\mathbf{r}_{k+1}^T \mathbf{r}_{k+1}}{\mathbf{r}_k^T \mathbf{r}_k}$ 
  pk+1 := rk+1 + βk pk
  k := k + 1

```