
`%Homework 4/12: Solving Linear Systems of Equations`

`%Inputting the equations for unknowns`

```
A=[3 4 2 -1 1 7 1; 2 -2 3 -4 5 2 8; 1 2 3 1 2 4 6; 5 10 4 3 9 -2 1; 3
  2 -2 -4 -5 -6 7;...
  -2 9 1 3 -3 5 1; 1 -2 -8 4 2 4 5];
```

`%Inputting the solutions for each equation`

```
B=[42; 32; 12; -5; 10; 18; 17];
```

`%Time inverse function`

```
tic
inv(A)*B
toc
```

`%Time left division`

```
tic
A\B
toc
```

`ans =`

```
-0.1890
 2.5459
-3.2806
-6.7578
 1.3212
 4.3194
 0.6294
```

Elapsed time is 0.695181 seconds.

`ans =`

```
-0.1890
 2.5459
-3.2806
-6.7578
 1.3212
 4.3194
 0.6294
```

Elapsed time is 0.024834 seconds.

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