```
A=[1 2 3; 4 5 6; 9 8 6]
A=[1 2 3; 4 5 6; 9 8 6];
A(2,1)
A(2,2)
A(2,1:2)
A(1:2,2:3)
A(1:2,:)
size(A)
A'
inv(A)
A*inv(A)
sum(A) % summerer kolonner
sum(A')
zeros(3,2)
B=ones(3,2)
B*B'
B'*B'
B.*B
b=1:10;
c=ones(size(b))
c=ones(1,10)
sum(b) %ikke bruk løkker hvis du kan unngå det!!!
b*c'
a=0:0.01:2*pi;
plot(a,sin(a))
hold on
plot(a,cos(a),'r')
b=linspace(0,2*pi,10);
plot(b,cos(b),'ro')
hold off
axis tight
%dock figur
%ordne vinduer
%kopier Command History -> Editor
help rand
a=rand(1,1000);
plot(a,'o')
figure
b=randn(1,1000);
plot(b,'o')
hist(b)
figure(1)
hist(a)
x=0:100;
y=3*x+5;
plot(x,y,'s')
```

```
A =

     1     2     3
     4     5     6
```

```
     9     8     6


ans =

     4


ans =

     5


ans =

     4     5


ans =

     2     3
     5     6


ans =

     1     2     3
     4     5     6


ans =

     3     3


ans =

     1     4     9
     2     5     8
     3     6     6


ans =

   -6.0000    4.0000   -1.0000
   10.0000   -7.0000    2.0000
   -4.3333    3.3333   -1.0000


ans =

    1.0000         0   -0.0000
         0    1.0000         0
    0.0000         0    1.0000
```

```
ans =

    14    15    15


ans =

     6    15    23


ans =

     0     0
     0     0
     0     0


B =

     1     1
     1     1
     1     1


ans =

     2     2     2
     2     2     2
     2     2     2


Error using *
Inner matrix dimensions must agree.

Error in matlab_intro_fys2150_2015 (line 17)
B'*B'
```

```
figure(1)
y=3*x+5+20*randn(size(x));
plot(x,y,'s')
plot(x,y)
plot(x,y,'s')
help polyfit
[p,s]=polyfit(x,y,1) %ikke nøyaktig 3 og 5
hold on, plot(x,yh,'k:','LineWidth',2), hold off
xlabel('Strøm, mA','FontSize',20,'FontName','Times')
ylabel('Spenning, mV','FontSize',20,'FontName','Times')
text(10,280,['R = U/I = ',num2str(p(1),3),' Ohm'],'FontSize',20,'FontName','Times'
set(gca,'FontName','Times')
set(gca,'FontSize',20)
axis tight
%Store nok fonter!
```

```
%Data markert med punkter, ikke linjer mellom punktene
%Modelltilpasning til data markert med tydelig linje

% sett i cellemodus, gjenta mange ganger
figure(2), hist(y-yh)
subplot(2,1,1), hist(y-yh)
axis([-50 50 0 25])
subplot(2,1,2), plot(sort(y-yh),x/max(x))
hold on
subplot(2,1,2), plot(x-mean(x),(erf((x-mean(x))./std(y-yh))+1)/2,'r')
axis([-50 50 0 1])
hold off

%Print ut og lim inn

%Strøm og spenning

%Bilder
```

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