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## Exercici 11: mínims quadrats

```
disp('sistema lineal')
A=[1 1; 2 1; 1 2; 2 3; 2 5; 2 4]
b=[30.006 44.013 46.006, 76.012 108.010 92.011]'
```

```
sistema lineal
    1
    2
        1
    1
        2
    2
         3
    2
         5
    2
         4
b =
      30.006
      44.013
      46.006
      76.012
      108.01
      92.011
```

## **Equacions normals**

```
disp('equacions normals')
rank(A)
B=A'*A
c=A'*b
```

# Sol de residu mínim

```
disp('sol equacions normals')
xn=B\c

sol equacions normals
xn =
```

14.007

15.999

## **Comparem Residus**

```
disp('residu minim')
rn=norm(b-A*xn,2)
r=norm(b-A*[14 16]')
```

```
residu minim
rn =
   0.00069213
r =
   0.024617
```

.....

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