

```

%y=a+bx+cx^2
x1=[-1,0,1,2];
y1=[-2,1,2,4];
xi=sum(x1);
yi=sum(y1);
c=x1.*x1;
n=length(x1);
d=x1.*y1;
e=c.*x1;
f=c.*y1;
g=c.*c;
xi2=sum(c);
xi3=sum(e);
xi4=sum(g);
xiyi=sum(d);
xi2yi=sum(f);
a=[n,xi,xi2;xi,xi2,xi3;xi2,xi3,xi4];
b=[yi;xiyi;xi2yi];
X=linsolve(a,b);
a1=X(1);
b1=X(2);
c1=X(3);
x2=1:1:1000;
y=(a1+(b1*x2)+(c1*(x2.^2)));
plot(x2,y,"o")

```

