

---

```

% clear all
% close all
% x=[-1;0;1;2;3]
% y=[6.62;3.94;2.17;1.35;0.89]
%
% Y1 = x./y
% Y2 = y.^-.5
%
%
%
% figure
% hold on
% plot(x,Y1, '* k')
% plot(x,y, '* b')
% legend('X1','Y1')
%
% alph1 = 2.128
% bet1 = -1.944
% linX = linspace(-1,3,20);
% F1 = linX./(alph1*linX+bet1);
% plot(linX,F1)
% Fpredict1 = x./(alph1*x+bet1);
% plot(x,Fpredict1, '* r')
% R1 = sum((y-Fpredict1).^2)

clear all
close all
x=[-1;0;1;2;3]
y=[6.62;3.94;2.17;1.35;0.89]

Y1 = y.^-.5

sum1= sum(Y1)
sum2 = sum(Y1.*x)

figure
hold on
plot(x,Y1, '* k')
plot(x,y, '* b')
legend('X1','Y1')

alph1 = .16995
bet1 = .5285

linX = linspace(-1,3,20);
F = @(x) (alph1*x+bet1).^-1;
F1 = F(linX)
plot(linX,F1)
Fpredict1 = F(x);
plot(x,Fpredict1, '* r')

```

---

---

```
R1 = sum((y-Fpredict1).^2)
```

```
x =
```

```
-1  
0  
1  
2  
3
```

```
y =
```

```
6.6200  
3.9400  
2.1700  
1.3500  
0.8900
```

```
Y1 =
```

```
0.3887  
0.5038  
0.6788  
0.8607  
1.0600
```

```
sum1 =
```

```
3.4920
```

```
sum2 =
```

```
5.1915
```

```
alph1 =
```

```
0.1699
```

```
bet1 =
```

```
0.5285
```

```
F1 =
```

```
Columns 1 through 7
```

---

2.7890	2.5360	2.3250	2.1464	1.9934	1.8607	1.7445
--------	--------	--------	--------	--------	--------	--------

Columns 8 through 14

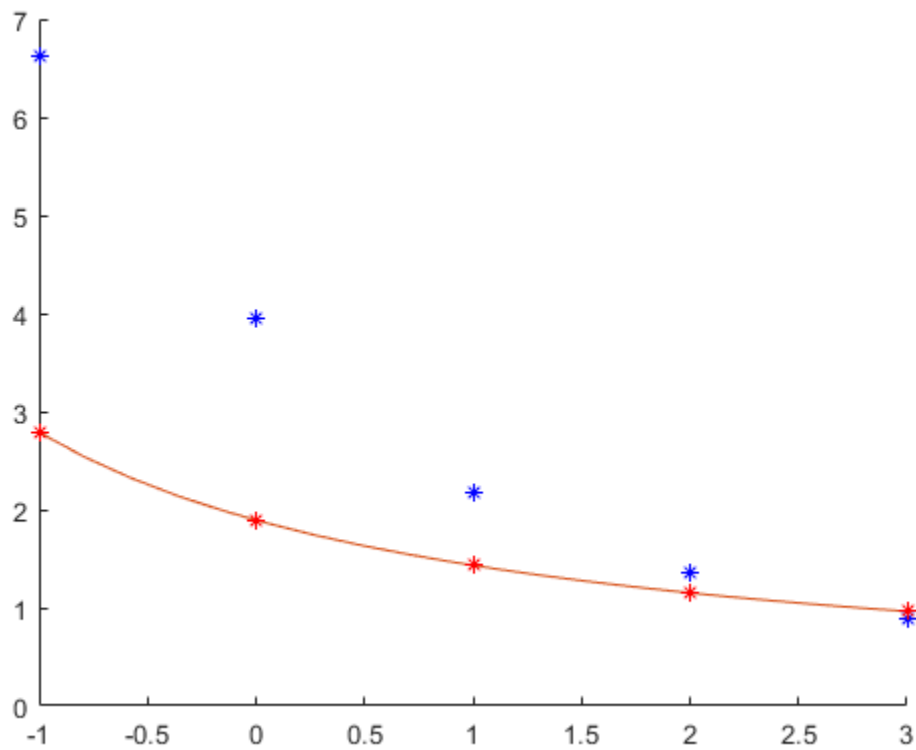
1.6420	1.5509	1.4694	1.3960	1.3296	1.2692	1.2141
--------	--------	--------	--------	--------	--------	--------

Columns 15 through 20

1.1635	1.1170	1.0741	1.0343	0.9974	0.9631
--------	--------	--------	--------	--------	--------

R1 =

19.4599



Published with MATLAB® R2022a