



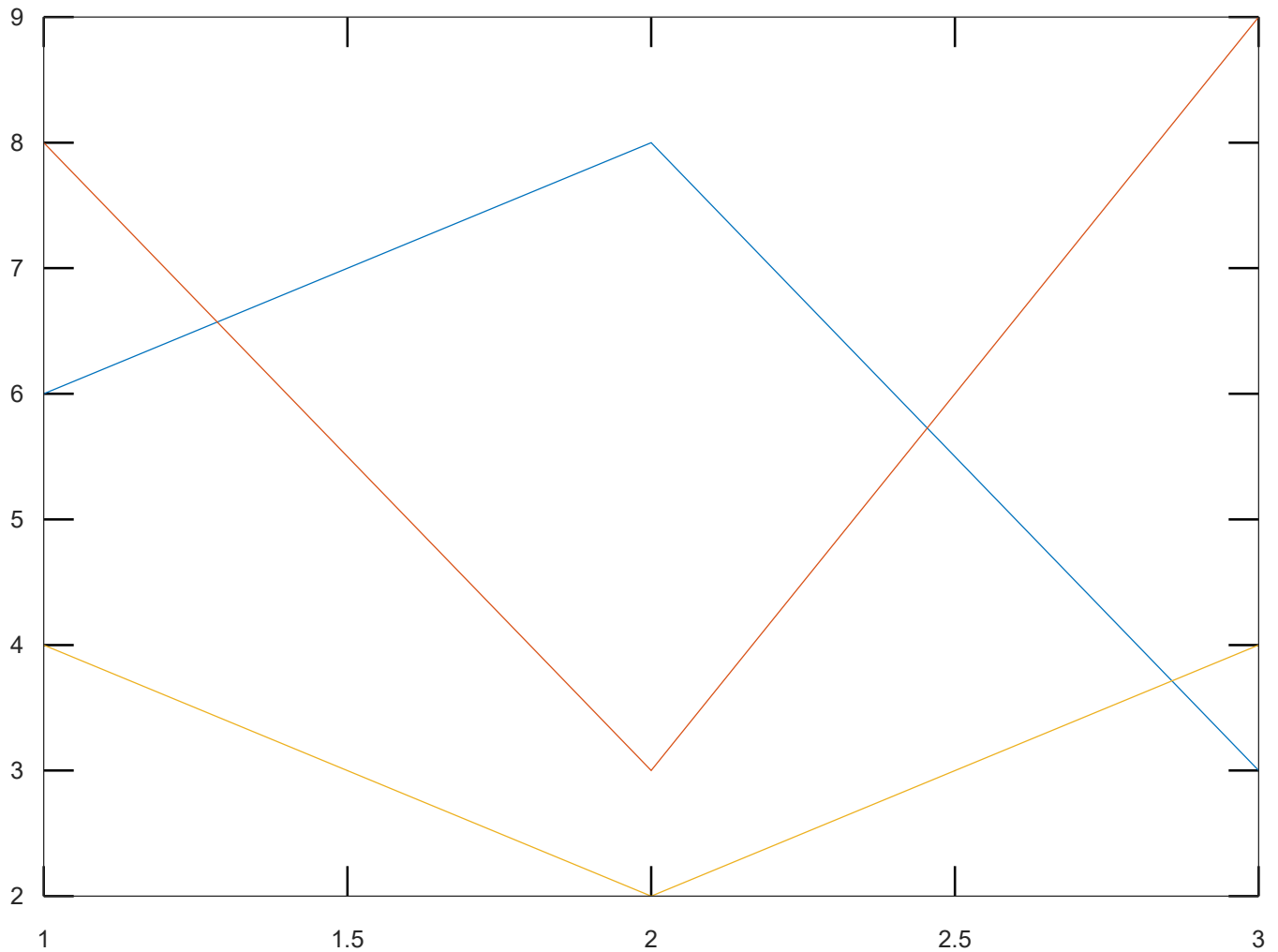
*Connection lost. Attempting to reconnect...*

```
octave:0> x=[6 8 4;8 3 2;3 9 4]
```

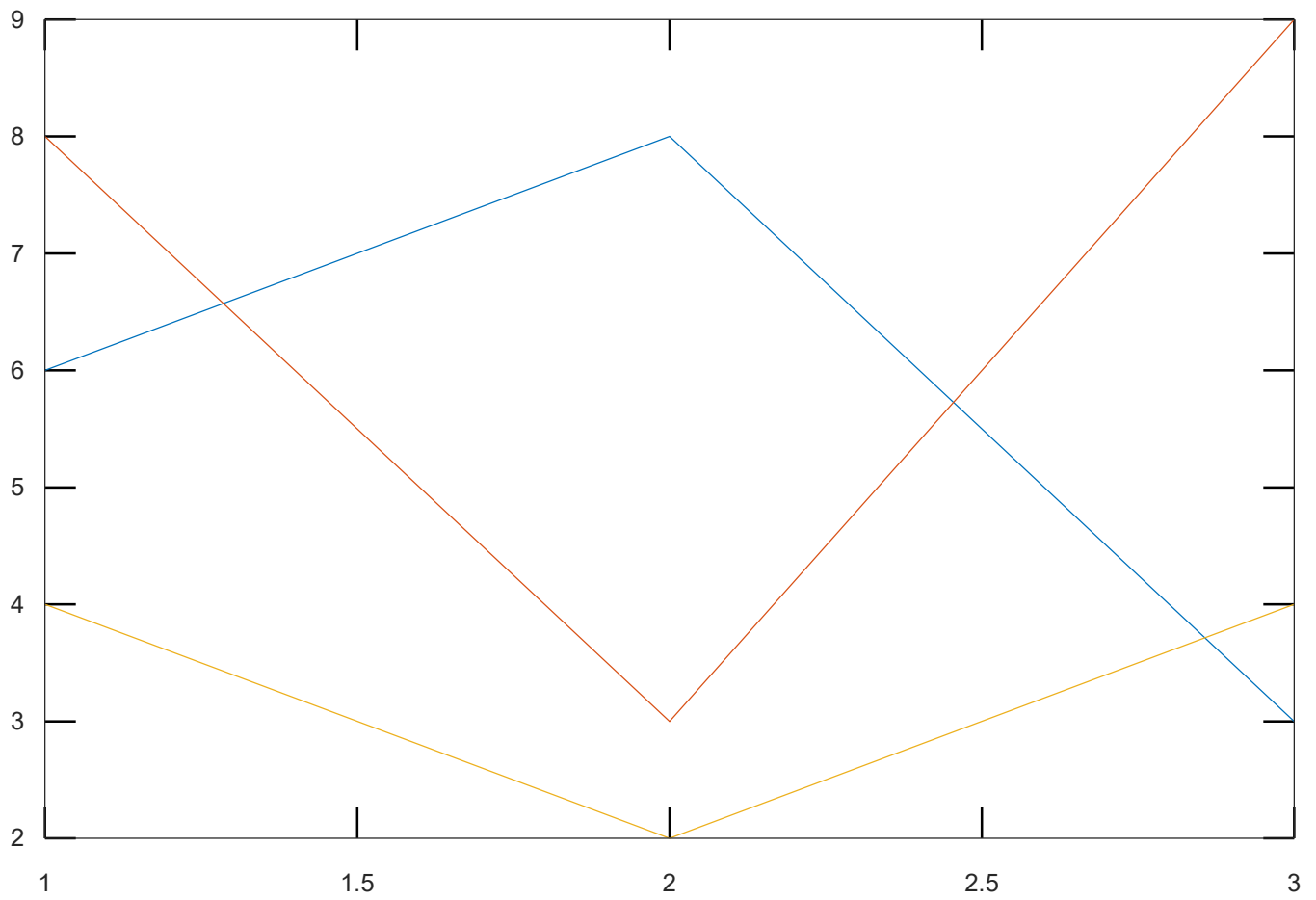
```
x =
```

```
6    8    4
8    3    2
3    9    4
```

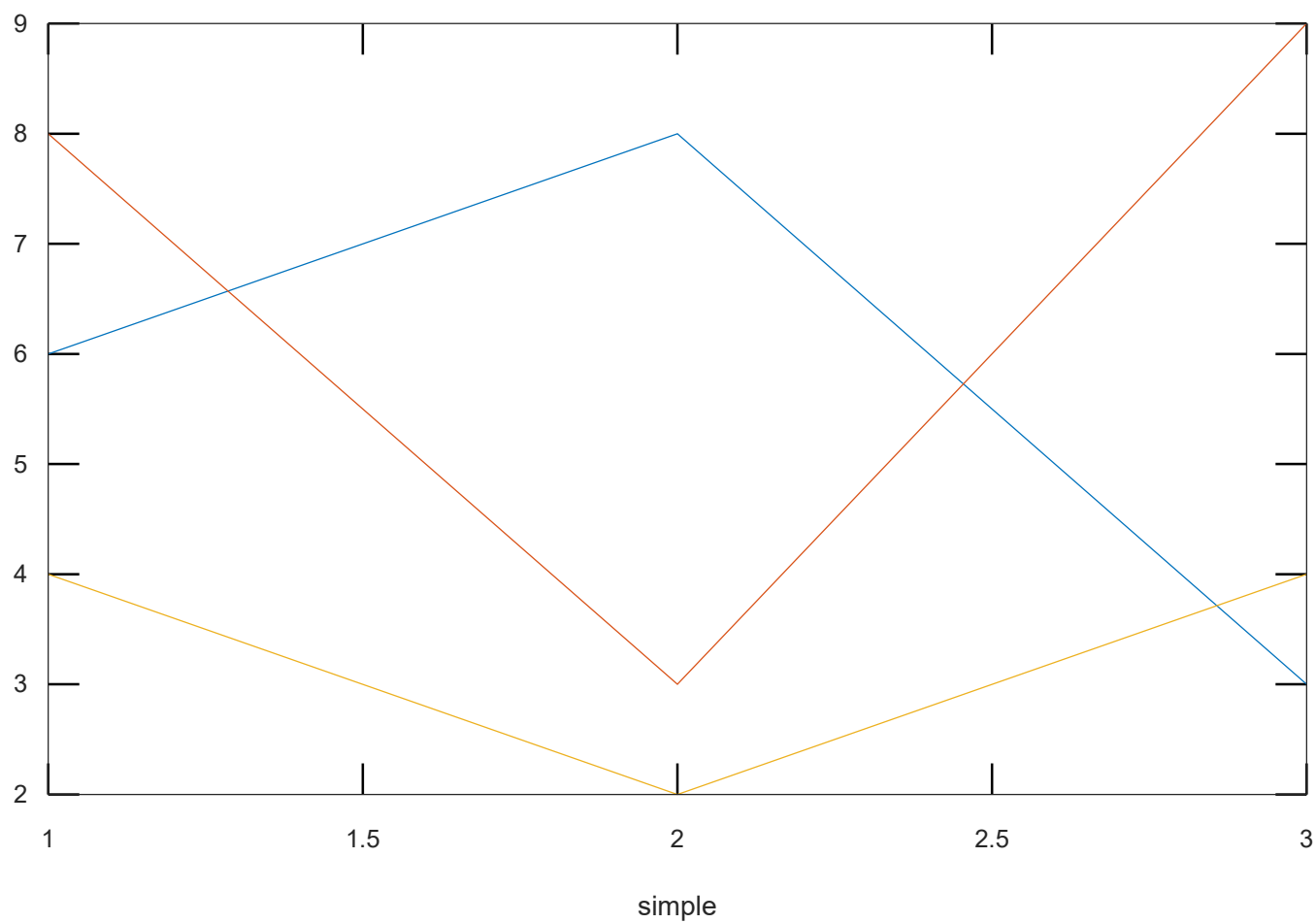
```
octave:3> plot(x)
```



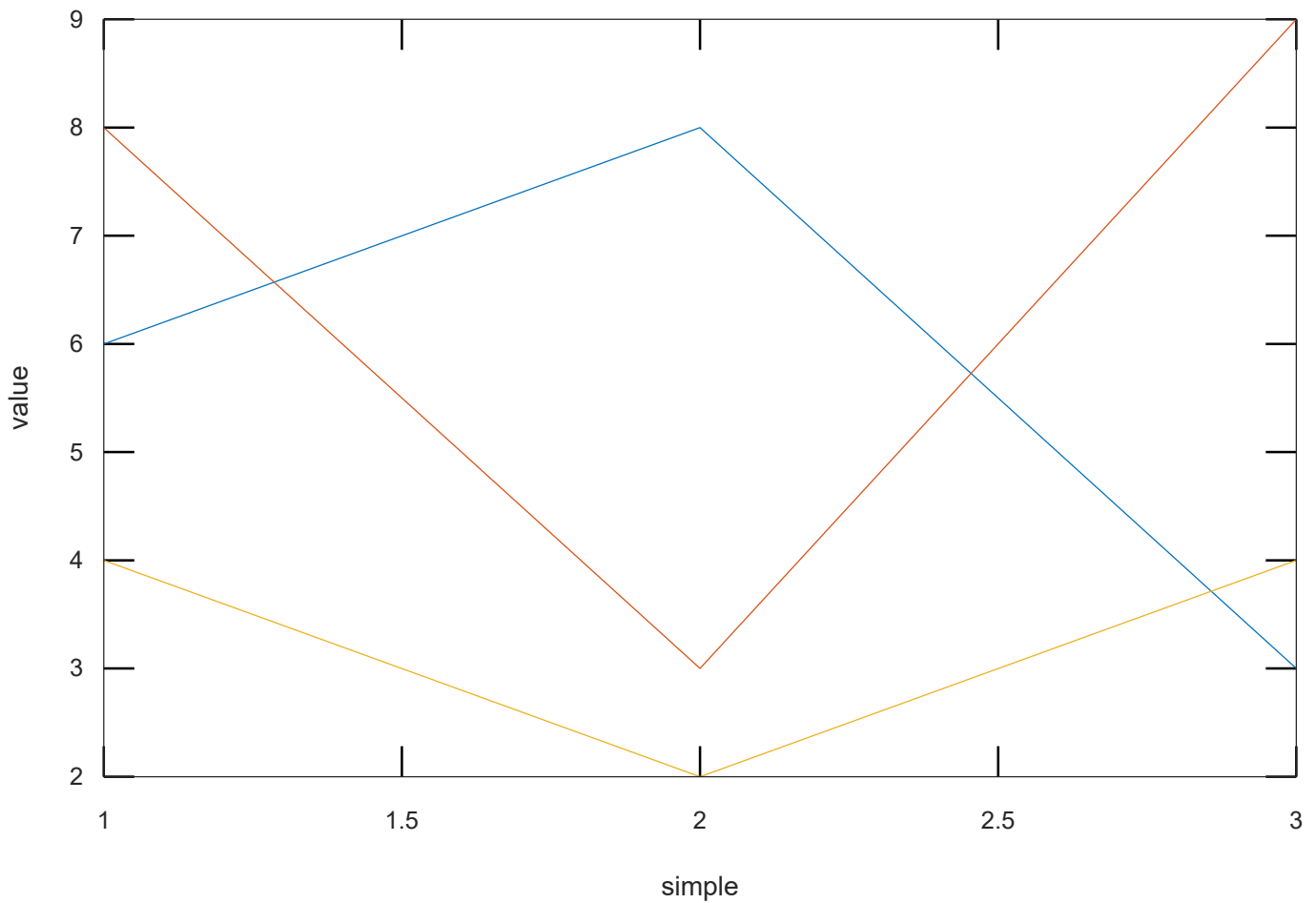
```
octave:4> title('3*3 real Matrix')
```

**3\*3 real Matrix**

```
octave:5> xlabel('simple')
```

**3\*3 real Matrix**

```
octave:6> ylabel('value')
```

**3\*3 real Matrix**

```
octave:7> y=det(x)
```

```
y = 8
```

```
octave:8> z=rank(x)
```

```
z = 3
```

```
octave:9> a=inv(x)
```

```
a =
```

```
-0.7500    0.5000    0.5000
-3.2500    1.5000    2.5000
 7.8750   -3.7500   -5.7500
```

```
octave:10> b=x'
```

```
b =
```

```
6    8    3
8    3    9
4    2    4
```

```
octave:11> c=eig(x)
```

```
c =
```

```
15.5974
-2.3821
-0.2153
```

*Connection lost. Attempting to reconnect...*

```
octave:0> [v,d]=eig(x)
```

```
v =
```

```
-0.655226  -0.222132  -0.065022  
-0.505262   0.612180  -0.405397  
-0.561594  -0.758876   0.911826
```

```
d =
```

Diagonal Matrix

```
15.5974      0      0  
      0  -2.3821      0  
      0      0  -0.2153
```