

ENCE 203
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Spring 2002
MATLAB Session for Multi-dimensional Newton-Raphson Method

```
» Jac=[ 6.5 1.5  
36.75 32.5]
```

Jac =

```
    6.5000    1.5000  
   36.7500   32.5000
```

```
» old =[1.5  
3.5]
```

old =

```
    1.5000  
    3.5000
```

```
» F_old=[-2.5  
1.625]
```

F_old =

```
   -2.5000  
    1.6250
```

```
» new = -inv(Jac)*F_old+old
```

new =

```
    2.0360  
    2.8439
```

```
»
```