

```
In[7]:= M = {{2, 1}, {1, 4}}
```

```
Out[7]= {{2, 1}, {1, 4}}
```

```
In[8]:= MatrixForm[M]
```

```
Out[8]//MatrixForm=
```

$$\begin{pmatrix} 2 & 1 \\ 1 & 4 \end{pmatrix}$$

```
In[9]:= Det[M]
```

```
Out[9]= 7
```

```
In[10]:= Tr[M]
```

```
Out[10]= 6
```

```
In[11]:= Eigenvalues[M]
```

```
Out[11]= {3 -  $\sqrt{2}$ , 3 +  $\sqrt{2}$ }
```