

```
>> C1
Input a complex number z as a+bj: 3+4j
Input the power of the root, i.e., n of z^1/n: 5
```

```
check =
```

```
1.0e-14 *

0.1776 + 0.2665i
0.0444 - 0.1332i
0.6661 - 0.3553i
0.7550 - 0.1776i
0.7550 - 0.2665i
```

```
>> C1
Input a complex number z as a+bj: 2-5j
Input the power of the root, i.e., n of z^1/n: 4
```

```
check =
```

```
1.0e-14 *

0.0444 + 0.0888i
0.0444 + 0.0888i
-0.3775 - 0.1776i
-0.3775 - 0.1776i
```

```
>> C1
Input a complex number z as a+bj: -1+0j
Input the power of the root, i.e., n of z^1/n: 3
```

```
check =
```

```
1.0e-15 *

0.2220 + 0.1110i
0.0000 + 0.0000i
0.2220 - 0.1110i
```

```
>> C1
Input a complex number z as a+bj: -1-0.0001j
Input the power of the root, i.e., n of z^1/n: 3
```

```
check =
```

```
1.0e-15 *
```

```
0.3331 - 0.0445i
0.2220 - 0.2110i
0.4441 + 0.4091i
```

```
>> C1
```

```
Input a complex number z as a+bj: 0-1j
```

```
Input the power of the root, i.e., n of z^1/n: 9
```

```
check =
```

```
1.0e-15 *
```

```
0.0833 + 0.5551i
0.2776 + 0.5551i
0.0555 - 0.4441i
-0.0555 - 0.4441i
-0.2776 + 0.5551i
-0.0833 + 0.5551i
0.3331 + 0.5551i
0.0000 + 0.0000i
-0.3331 + 0.5551i
```

```
>> C1
```

```
Input a complex number z as a+bj: 5+15j
```

```
Input the power of the root, i.e., n of z^1/n: 7
```

```
check =
```

```
1.0e-12 *
```

```
0.0036 + 0.0000i
-0.0044 + 0.0089i
0.0053 - 0.0053i
-0.0284 + 0.0000i
-0.0622 + 0.0178i
-0.0817 + 0.0409i
-0.1030 + 0.0355i
```

```
>>
```