

```
z = tf('z',1)
z'
tf(ss(z)')
```

```
q=z +1
q'
tf(ss(q)')
```

```
q=z^3-2*z^2+3*z+7
q'
tf(ss(q)')
```

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```
z =
```

```
z
```

```
Sample time: 1 seconds
Discrete-time transfer function.
```

```
ans =
```

```
1
-
z
```

```
Sample time: 1 seconds
Discrete-time transfer function.
```

```
ans =
```

```
z
---
z^2
```

```
Sample time: 1 seconds
Discrete-time transfer function.
```

```
q =
```

```
z + 1
```

```
Sample time: 1 seconds
Discrete-time transfer function.
```

```
ans =
```

```
z + 1
-----
```

z

Sample time: 1 seconds
Discrete-time transfer function.

ans =

$$\frac{z^2 + z + 2.892e-17}{z^2}$$

Sample time: 1 seconds
Discrete-time transfer function.

q =

$$z^3 - 2z^2 + 3z + 7$$

Sample time: 1 seconds
Discrete-time transfer function.

ans =

$$\frac{7z^3 + 3z^2 - 2z + 1}{z^3}$$

Sample time: 1 seconds
Discrete-time transfer function.

ans =

$$\frac{7z^4 + 3z^3 - 2z^2 + z + 2.425e-17}{z^4}$$

Sample time: 1 seconds
Discrete-time transfer function.

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