```
In[1]:= ellipticlowpassfirstordersection = W2/(s + W2)
```

$$\text{Out[1]}= \frac{W2}{s + W2}$$

```
In[2]:= s = P (z - 1)/(z + 1)
```

$$\text{Out[2]}= \frac{P\,(-1 + z)}{1 + z}$$

```
In[3]:= ellipticlowpassfirstordersection
```

$$\text{Out[3]}= \frac{W2}{W2 + \frac{P\,(-1+z)}{1+z}}$$

```
In[4]:= Together[ExpandAll[%]]
```

$$\text{Out[4]}= \frac{W2\,(1 + z)}{-P + W2 + P\,z + W2\,z}$$

```
In[5]:= Collect[Numerator[%4], z]
```

$$\text{Out[5]}= W2 + W2\,z$$

```
In[6]:= Collect[Denominator[%4], z]
```

$$\text{Out[6]}= -P + W2 + (P + W2)\,z$$

```
In[7]:= Collect[%5 / (P + W2), z]
```

$$\text{Out[7]}= \frac{W2}{P + W2} + \frac{W2\,z}{P + W2}$$

```
In[8]:= Collect[%6 / (P + W2), z]
```

$$\text{Out[8]}= \frac{-P + W2}{P + W2} + z$$

```
In[9]:= %7 / %8
```

$$\text{Out[9]}= \frac{\frac{W2}{P+W2} + \frac{W2\,z}{P+W2}}{\frac{-P+W2}{P+W2} + z}$$