

In[1]:= $z = 1/2$
 $w = 5/4$

Out[1]= $\frac{1}{2}$

Out[2]= $\frac{5}{4}$

In[3]:= $\{z + w, z - w, z * 2, z / w\}$

Out[3]= $\left\{\frac{7}{4}, -\frac{3}{4}, 1, \frac{2}{5}\right\}$

In[5]:= $\{z^2, z^3, 1/z\}$

Out[5]= $\left\{\frac{1}{4}, \frac{1}{8}, 2\right\}$

In[6]:= $\{z^0, z^{-1}, z^{-2}, z^{-3}\}$

Out[6]= $\{1, 2, 4, 8\}$

In[7]:= $-z$

Out[7]= $-\frac{1}{2}$

In[8]:= $\text{Abs}[z]$

Out[8]= $\frac{1}{2}$

In[9]:= $z == 1/2$

Out[9]= True

In[10]:= $z - z == 0$

Out[10]= True

In[11]:= $-w$

Out[11]= $-\frac{5}{4}$

In[12]:= $(-w)^{10}$

Out[12]= $\frac{9765625}{1048576}$

In[13]:= $(-w)^{-10}$

Out[13]= $\frac{1048576}{9765625}$

In[14]:= $(z - w)^0$

Out[14]= 1

In[16]:= $\{(z - w)^3, (z - w)^2, (z - w)^1,$
 $(z - w)^0, (z - w)^{-1}, (z - w)^{-2}, (z - w)^{-3}\}$

Out[16]= $\left\{-\frac{27}{64}, \frac{9}{16}, -\frac{3}{4}, 1, -\frac{4}{3}, \frac{16}{9}, -\frac{64}{27}\right\}$