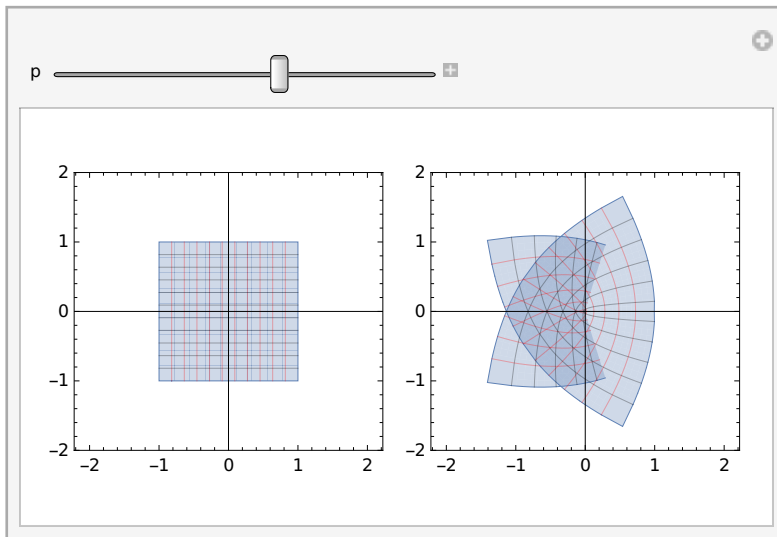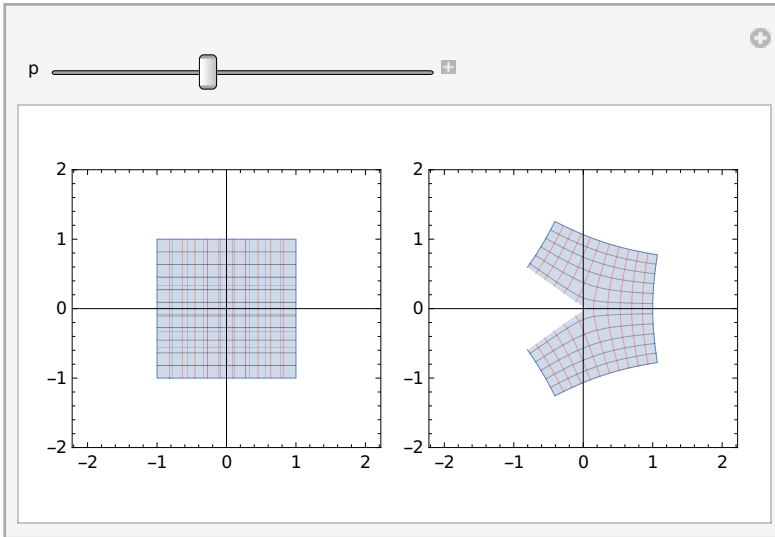# Mocninná funkce

```
Manipulate[
 f2[z_] = z^p;
 gr1 = ParametricPlot[ReIm[x + I y], {x, -1, 1}, {y, -1, 1},
    PlotPoints → 10, PlotRange → {-2, 2}, Mesh → 10, MeshStyle → {Red, Black}];
 gr2 = ParametricPlot[ReIm[f2[x + I y]], {x, -1, 1}, {y, -1, 1}, PlotPoints → 10,
    PlotRange → {-2, 2}, Mesh → 10, MeshStyle → {Red, Black}];
 Show[GraphicsGrid[{{gr1, gr2}}]]
 , {p, 1, 2, 0.1}]
```

```
Manipulate[
 f3[z_] = z^p;
 gr1 = ParametricPlot[ReIm[x + I y], {x, -1, 1}, {y, -1, 1},
    PlotPoints → 10, PlotRange → {-2, 2}, Mesh → 10, MeshStyle → {Red, Black}];
 gr2 = ParametricPlot[ReIm[f3[x + I y]], {x, -1, 1}, {y, -1, 1}, PlotPoints → 10,
    PlotRange → {-2, 2}, Mesh → 10, MeshStyle → {Red, Black}];
 Show[GraphicsGrid[{{gr1, gr2}}]]
 , {p, 1, 0.5, -0.1}]
```


Exponenciální funkce

```
f4[z_] = Exp[z];
gr1 = ParametricPlot[ReIm[x + I y], {x, -1, 1}, {y, -1, 1},
    PlotPoints → 30, PlotRange → {-2, 2}, Mesh → 10, MeshStyle → {Red, Black}];
gr2 = ParametricPlot[ReIm[f4[x + I y]], {x, -1, 1}, {y, -1, 1}, PlotPoints → 30,
    PlotRange → {-2, 2}, Mesh → 10, MeshStyle → {Red, Black}];
Show[GraphicsGrid[{{gr1, gr2}}]]
```