



$$f[z_] := a z + b$$

$$a = \frac{1}{2} (1 + i); b = 1;$$

`NestList[f, 0, 8]`

$$\left\{ 0, 1, \frac{3}{2} + \frac{i}{2}, \frac{3}{2} + \frac{3i}{2}, \frac{5}{4} + \frac{5i}{4}, 1 + \frac{5i}{4}, \frac{7}{8} + \frac{9i}{8}, \frac{7}{8} + \frac{7i}{8}, \frac{15}{16} + \frac{15i}{16} \right\}$$

## Pi/4 Kreise gefüllt

$$d[\alpha_] := \begin{pmatrix} \cos[\alpha] & -\sin[\alpha] \\ \sin[\alpha] & \cos[\alpha] \end{pmatrix}$$

$$z[k_] := \begin{pmatrix} k & 0 \\ 0 & k \end{pmatrix}$$

$$\text{bild}[p_] := (z[k] \cdot d[\alpha] \cdot p + c) // \text{Flat}$$

$$p = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$$

$$\alpha = \frac{\pi}{10}; k = 0.935; c = \begin{pmatrix} \frac{1}{2} \\ 0 \end{pmatrix};$$

`li =`

`(NestList[bild, p // Flatten, 50])`

