

$$\frac{\pi}{\kappa} = \left(\frac{\pi}{4}\right) \times \frac{1}{\kappa} = \frac{\psi^0}{\kappa} = 12^\circ$$

7

$$A = \frac{\kappa \tan\left(\frac{\pi}{\kappa} - 12^\circ\right) + \tan\left(\frac{\pi}{\kappa} + 12^\circ\right)}{\kappa \tan(\pi - 12^\circ) - \tan\left(\frac{\pi}{\kappa} - 12^\circ\right)} = \frac{\kappa \cot 12^\circ - \cot 12^\circ}{-\kappa \tan 12^\circ - \cot 12^\circ}$$

$$A = \frac{\cot 12^\circ}{-\kappa \tan 12^\circ - \cot 12^\circ} \xrightarrow{\tan 12^\circ = a} \frac{\frac{1}{a}}{-\kappa a - \frac{1}{a}} = \frac{-1}{\kappa a^2 + 1}$$