$$\begin{array}{l} -\frac{1}{4\,k} \left[ \frac{1}{e^{2\pi \pi} + e^{2\pi \pi} z} \left( -2\,i\,\left(1 + e^{4\,i\,\pi\,z} - 2\,e^{2\,i\,\pi\,(k+2)}\right)\,k + e^{2\,i\,\pi\,z} \,\left( -1 + e^{2\,i\,k\,\pi}\right)\,\alpha \right)\, Csc\left[k\,\pi\right] \, - \\ -\frac{1}{4\,k} \left[ \frac{1}{e^{2\pi\pi} z + e^{2\,i\,\pi\,z}} \left( -2\,i\,\left(1 + e^{4\,i\,\pi\,z} - 2\,e^{2\,i\,\pi\,(k+2)}\right)\,k \right) - \frac{16\,k^2\,Cos\left[\pi\,\tilde{x}\right]^2}{\left(4\,k\,Cos\left[\kappa\,\pi\right] + \alpha\,Sin\left[k\,\pi\right]\right)^2} \right) \right] \\ \\ \left[ \left( \left[ \left( -e^{i\,\left(\pi - \theta\right)\,\left(k - z\right)}\,k - \frac{2\,e^{i\,i\,k\,\left(\pi - \theta\right) + \left(-2\pi\pi\theta\right)\,z} \right) \left( -1 + e^{2\,i\,x\,\left(\pi + z\right)} \right)\,k }{-1 + e^{2\,i\,k\,\pi}} - \left( e^{-i\,\left(k\,\left(\pi - \theta\right) + \left(\pi - \theta\right)\,z} \right)\,\left( e^{2\,i\,k\,\pi} + e^{2\,i\,k\,\left(\pi - \theta\right)} \right) + i\,e^{i\,\left(\pi - \theta\right)\,\left(k - \theta\right)}\,\alpha \right) \right] \\ \left( 2\,\left( 1 + e^{2\,i\,k\,\left(\pi - \theta\right)} \right) \alpha \right) - \left( e^{-i\,\left(\kappa - \theta\right) + \pi\,\theta} \right)\,k \right) \left/ \left( -1 + e^{2\,i\,k\,\left(\pi + \theta\right)} \right) + i\,e^{i\,\left(\pi - \theta\right)\,\left(k - \theta\right)}\,\alpha \right) \right. \\ \left( 2\,\left( 1 + e^{2\,i\,k\,\theta} - 2\,e^{2\,i\,k\,\left(\pi - \theta\right)} \right) \left( -1\,e^{2\,i\,x\,\left(\pi + \theta\right)} \right)\,k + i\,e^{2\,i\,\pi\,\pi} \left( -1 + e^{2\,i\,k\,\pi} \right) \left( -1 + e^{2\,i\,k\,\pi} \right) \right) \right] \\ \left( 2\,\left( 1 + e^{2\,i\,k\,\theta} - 2\,e^{2\,i\,k\,\left(\pi - \theta\right)} \right) \left( -1\,e^{2\,i\,k\,\left(\pi + \theta\right)} \right)\,k + i\,e^{2\,i\,\pi\,\pi} \left( -1 + e^{2\,i\,k\,\pi} \right) \left( -1 + e^{2\,i\,k\,\pi} \right) \right) \right] \\ \left( -1 + e^{2\,i\,k\,\left(\pi - \theta\right)} \right) \alpha \right) - \left( e^{-i\,\left(\kappa\,(\pi - \theta) + (\pi - \theta)\,z\right)} \right) \left( e^{2\,i\,k\,\theta} + e^{2\,i\,k\,\left(\pi + \theta)} \right) - 2\,e^{2\,i\,\left(k\,(\pi - \theta) + \pi\right)} \right) \right) \right) \right) \\ \left( -1 + e^{2\,i\,k\,\left(\pi - \theta\right)} \right) + i\,e^{-i\,\left(\pi - \theta\right)} \left( \kappa + z \right)} \right) \left( 2\,\left( -1 - e^{2\,i\,k\,\pi} + e^{2\,i\,k\,\pi} + e^{2\,i\,k\,\pi} \right) \right) \right) \\ \left( -1 + e^{2\,i\,k\,\left(\pi - \theta\right)} \right) + i\,e^{-i\,\left(\pi - \theta\right)} \left( \kappa + z \right)} \right) \left( 2\,\left( -1 - e^{2\,i\,k\,\pi} \right) \left( -1 + e^{2\,i\,k\,\pi} \right) \right) \right) \right) \\ \left( -1 + e^{2\,i\,k\,\pi} + e^{2\,i\,\kappa\,\pi} + e^{2\,i\,\kappa\,\pi} \right) \left( -1 + e^{2\,i\,\kappa\,\pi} \right) \right) \left( -1 + e^{2\,i\,k\,\pi} + e^{2\,i\,k\,\left(\pi - \theta\right)} \right) \right) \\ \left( 1 - e^{i\,i\,\pi\,\pi} + e^{2\,i\,\kappa\,\pi} \right) \left( 1 + e^{2\,i\,\kappa\,\pi\,\theta} + e^{2\,i\,\kappa\,\pi\,\theta} \right) \right) \left( -1 + e^{2\,i\,\kappa\,\pi} \right) \right) \\ \left( -1 + e^{2\,i\,k\,\pi} \right) \left( 1 + e^{2\,i\,k\,\pi\,\pi} + e^{2\,i\,\kappa\,\pi\,\theta} \right) \left( 2\,e^{2\,i\,\kappa\,\pi\,\pi} + e^{2\,i\,\kappa\,\pi\,\pi} \right) \right) \left( -1 + e^{2\,i\,k\,\pi} \right) \\ \left( -1 + e^{2\,i\,k\,\pi} \right) \left( 1 + e^{2\,i\,k\,\pi\,\pi} + e^{2\,i\,k\,\pi} - e^{2\,i\,\kappa\,\pi\,\pi} \right) \left( -1 + e^{2\,i\,\kappa\,\pi} \right) \right) \left( -1 + e^{2\,i\,\kappa\,\pi} \right) \right) \\ \left( -1 + e^{2\,i\,k\,\pi} \right) \left( 1 + e^{2\,i\,\kappa\,\pi\,\pi} \right) \left( 1 + e^{2\,i\,\kappa\,\pi} - e^{2\,i\,\kappa\,\pi} \right) \left$$

$$\frac{1}{2\left(1+e^{-2\,i\,\pi\,z}\right)k}\left(e^{i\,(\pi+\theta)\,(0+\theta)}\,k^{+} + \frac{2\,e^{i\,(k\,(\pi+\theta)\,+(x-\theta)\,z\,(x-\theta)\,z)}\left(-1+e^{2\,i\,x\,\pi}\,k^{+}\right)k}{-1+e^{2\,i\,k\,\pi}} + \frac{(e^{-i}\,(k\,(\pi+\theta)\,+(\pi+\theta)\,z\,(x-\theta)\,z)\left(e^{2\,i\,k\,\pi} + e^{i\,i\,k\,(2\pi+\theta)} - 2\,e^{2\,i\,(k\,(\pi+\theta)\,+\pi\,z)}\right)k\right)/}{(-1+e^{2\,i\,k\,\pi}\,\kappa + 2\,e^{4\,i\,k\,\pi}\,k + 2\,e^{2\,i\,k\,(\pi+\theta)\,(k+2)}\,a}\right)\right) + \\ \left(-4\,e^{2\,i\,k\,\pi}\,k + 2\,e^{4\,i\,k\,\pi}\,k + 2\,e^{2\,i\,k\,(2\pi+\theta)}\,k - e^{i\,i\,\pi\,(k+2)}\left(2\,k + i\,\alpha\right) - e^{2\,i\,(k\,(\pi+\theta)\,+\pi\,z)}}\right)}\left(2\,k + i\,\alpha\right) + e^{2\,i\,\pi\,z}\left(4\,k + i\,\alpha\right) + i\,e^{2\,i\,(k\,(2\pi+\theta)\,+\pi\,z)}\,a}\right)\left(e^{-i\,(\pi+\theta)\,(k+2)}\,k} - \frac{1}{2\left(1+e^{-2\,i\,\pi\,\theta}\right)k}\left(-e^{-i\,(\pi+\theta)\,(k+2)}\,k + \frac{2\,e^{-i\,(\kappa\,\pi\,k\,\theta+2\,\pi\,z+2\,\theta)}\left(-1+e^{2\,i\,\pi\,(k+2)}\right)k}{-1+e^{2\,i\,x\,(\kappa+2,\theta)}}\right)}\right) + \\ \left(e^{-i\,(k\,(\pi+\theta)\,+(\pi+\theta)\,\theta}\right)\left(e^{2\,i\,k\,\theta} + e^{2\,i\,k\,(\pi+2\,\theta)} - 2\,e^{2\,i\,(k\,(\pi+\theta)\,\pi\,\theta)}\right)k\right)/}\left(-1+e^{2\,i\,k\,(\pi+\theta)}\right) - i\,e^{-i\,(\pi+\theta)\,(k+2)}\,a}\right)\right)\right)$$

$$Sec\left[\pi\,\Xi\right]\left(\alpha+4\,k\,Csc\left[k\,\pi\right]Sin\left[\pi\,\Xi\right]Sin\left[\pi\,(k+3)\right]\right)\right)/$$

$$\left(3\left(-1+e^{2\,i\,k\,\pi}\right)\left(e^{2\,i\,k\,\pi} - e^{2\,i\,k\,\theta} - e^{2\,i\,\pi\,\Xi} + e^{2\,i\,(k\,(\pi+\theta)\,\pi\,\Xi)}\right)k^{2}\right)\right)$$

$$\left(3\left(4\,k\,Cos\left[k\,\pi\right] + \alpha\,Sin\left[k\,\pi\right]\right)\left(-1+\sqrt{1-\frac{16\,k^{2}\,Cos\left[\pi\,\Xi\right]^{2}}{4\,k\,Cos\left[k\,\pi\right]} + \alpha\,Sin\left[k\,\pi\right]}\right)}\right)\right)$$

$$\left(\left(-1+e^{2\,i\,k\,(\pi+\theta)\,+(\pi+\theta)\,\pi\,\Xi}\right)\left(e^{2\,i\,k\,\pi} + e^{2\,i\,k\,(2\pi+\theta)\,-2}\,2\,e^{2\,i\,(k\,(\pi+\theta)\,\pi\,\Xi)}\right)k\right)/\right)$$

$$\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right)\left(e^{2\,i\,k\,\pi} + e^{2\,i\,k\,(2\pi+\theta)} - 2\,e^{2\,i\,(k\,(\pi+\theta)\,\pi\,\Xi)}\right)k\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right)\left(e^{2\,i\,k\,\pi} + e^{2\,i\,k\,(2\pi+\theta)} - 2\,e^{2\,i\,(k\,(\pi+\theta)\,\pi\,\Xi)}\right)k\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right) + i\,e^{1\,(\pi+\theta)\,(\pi+2)\,\pi\,\Xi}\left(-1+e^{2\,i\,k\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right) - e^{2\,i\,\kappa\,\Xi}\right)$$

$$\left(e^{-i\,(\pi+\theta)\,(\kappa+2)}\,k + i\,e^{2\,i\,\kappa\,\Xi}\left(-1+e^{2\,i\,k\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right) - e^{2\,i\,\kappa\,\Xi}\right)$$

$$\left(e^{-i\,(\pi+\theta)\,(\kappa+2)}\,k + i\,e^{2\,i\,\kappa\,\Xi}\left(-1+e^{2\,i\,\kappa\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right) + e^{2\,i\,\kappa\,\Xi}\left(-1+e^{2\,i\,\kappa\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right)}\right)$$

$$\left(e^{-i\,(\pi+\theta)\,(\kappa+2)}\,k + i\,e^{2\,i\,\kappa\,\Xi}\left(-1+e^{2\,i\,\kappa\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right) + e^{2\,i\,\kappa\,\Xi}\right)$$

$$\left(e^{-i\,(\pi+\theta)\,(\kappa+2)}\,k + i\,e^{2\,i\,\kappa\,\Xi}\left(-1+e^{2\,i\,\kappa\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right)\right)$$

$$\left(e^{-i\,(\pi+\theta)\,(\kappa+2)}\,k + i\,e^{2\,i\,\kappa\,\Xi}\left(-1+e^{2\,i\,\kappa\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,(\pi+\theta)}\right)\right)$$

$$\left(e^{-i\,(\pi+\theta)\,(\kappa+2)}\,k + i\,e^{2\,i\,\kappa\,\Xi}\right)/\left(-1+e^{2\,i\,\kappa\,\Xi}\right)/\left(-1$$

$$\frac{1}{e^{\pm i\pi^2} + e^{\pm i\pi\pi}} \left\{ -2 \pm \left(1 + e^{\pm i\pi\pi^2} - 2 e^{\pm i\pi(k\pi\pi)}\right) k + e^{\pm i\pi\pi} \left(-1 + e^{\pm i\pi\pi}\right) \alpha \right\}$$

$$-2 \cos \left[k\pi\right] - \sec \left[\pi\pi\right] \left(4 k \cos \left[k\pi\right] + \alpha \sin \left[k\pi\right]\right)$$

$$\left[ -1 + \sqrt{1 - \frac{16 k^2 \cos \left[\pi\pi\right]^2}{4 k \cos \left[k\pi\right] + \alpha \sin \left[k\pi\right]}} \right] \right] \right] /$$

$$\left\{ 16 \left\{ -1 + e^{\pm ik\pi} \right\} \left(1 + e^{\pm i\pi\pi}\right) \left( e^{\pm ik\pi} - e^{\pm ik\pi} - e^{\pm i\pi\pi} + e^{\pm i(k(\pi(\theta)+\pi\pi)}\right) k^3 \right\} - \left[ e^{\pm ik\pi} \left[ \left( e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} + e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \right) e^{\pm i(\pi(\theta)+\pi(\theta))} \right] k^3 \right] - \left[ e^{\pm ik\pi} \left[ \left( e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} + e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \right) k \right] \right]$$

$$\left\{ e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \left( e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} - 2 e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \right) k \right\} - \left[ e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \left( e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} + e^{\pm i(\pi(\theta)+\pi(\theta))} \right) k \right]$$

$$\left\{ e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \left( e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} + e^{\pm i(\pi(\theta)+\pi(\theta))} \right) k - e^{\pm i(\pi(\theta)+\pi(\theta))} \right\} - \left[ e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \left( e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} + e^{\pm i(\pi(\theta))} \right) k \right]$$

$$\left\{ e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} \left( e^{\pm ik\pi} + 2 e^{\pm i(\pi(\theta)+\pi(\theta)+\pi(\theta))} + e^{\pm i(\pi(\theta))} \right) k \right\} - \left[ e^{\pm i(\pi(\theta)+\pi(\theta))} \left( e^{\pm ik\pi} + 2 e^{\pm ik\pi} + 2 e^{\pm i(\pi(\theta))} + e^{\pm i\pi\pi(\theta)} \right) - 2 e^{\pm i(\pi(\pi(\theta)+\pi(\theta))} \right) k \right\}$$

$$\left\{ e^{\pm i(\pi(\theta)+\pi(\theta))} \left( 1 + e^{\pm i\pi\pi} \right) \left( e^{\pm ik\pi} + 2 e^{\pm i(\pi(\pi(\theta))+\pi(\theta))} \right) \right\} - \left[ e^{\pm ik\pi} \sec \left[\pi\pi\right] \left( 1 + e^{\pm ik\pi} \right) \left( 1 + e^{\pm i\pi\pi} \right) \left( e^{\pm ik\pi} - e^{\pm i\pi\pi} + e^{\pm i(\pi(\pi(\theta)+\pi(\theta))+\pi(\theta))} \right) k \right\} - \left[ e^{\pm ik\pi} \sec \left[\pi\pi\right] \left( 1 + e^{\pm i\pi\pi} \right) \left( e^{\pm ik\pi} - e^{\pm i\pi\pi} + e^{\pm i(\pi(\pi(\theta)+\pi(\theta))+\pi(\theta))} \right) k \right\}$$

$$\left\{ e^{\pm ik\pi} \sec \left[\pi\pi\right] \left( 1 + e^{\pm i\pi\pi} \right) \left( e^{\pm ik\pi} - e^{\pm i\pi\pi} + e^{\pm i(\pi(\pi(\theta)+\pi(\theta))+\pi(\theta))} \right) k \right\} - \left[ e^{\pm ik\pi} \sec \left[\pi\pi\right] \left( 1 + e^{\pm i\pi\pi} + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm i\pi\pi} \right) \left( 1 + e^{\pm i\pi\pi} \left( 1 + e^{\pm$$

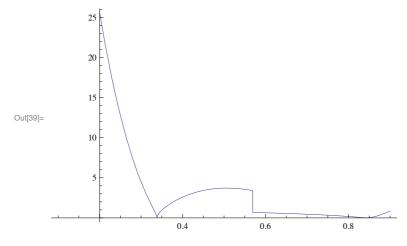
$$\left( -1 + e^{2\,i\,k\,(\pi,\theta)} \right) - i\,e^{i\,(\pi-\theta)}\,(k\cdot\overline{z})\,\alpha \, \middle/ \, \left( 2\,\left( 1 + e^{-2\,i\,\pi\,\overline{z}}\,\right)\,k \right) + \\ \left( 2\,\left( -1 - e^{2\,i\,k\,\pi} + e^{4\,i\,k\,\pi} + e^{2\,i\,k\,(\pi+\theta)} + e^{2\,i\,\pi\,\overline{z}} - e^{2\,i\,(2\,k\,\pi+k\,\theta+\pi\,\overline{z})} \right)\,k + \\ i\,e^{2\,i\,\pi\,\overline{z}}\,\left( -1 + e^{2\,i\,k\,\pi} \right) \left( -1 + e^{2\,i\,k\,(\pi+\theta)} \right)\,\alpha \right) \\ \left( e^{-i\,(\pi-\theta)\,(k\cdot\overline{z})} - \left( -e^{-i\,(\pi-\theta)\,(k\cdot\overline{z})}\,k + \frac{2\,e^{-i\,(k\pi-k\,\theta+\pi\,\overline{z}-\theta+\pi^2)}\,(-1 + e^{2\,i\,\pi\,(k\cdot\overline{z})})\,k + \frac{2\,e^{-i\,(k\pi-k\,\theta+\pi^2)}\,\pi^2-\theta^2}{1 + e^{2\,i\,k\,\pi}} \right) \right)\,k \right) \\ \left( e^{-i\,(\kappa-\theta)\,(k\cdot\overline{z})} - \left( -e^{-i\,(\pi-\theta)\,(k\cdot\overline{z})}\,k + \frac{2\,e^{-i\,(k\pi-k\,\theta+\pi^2)}\,\pi^2-\theta^2}{1 + e^{2\,i\,k\,\pi}} \right) \right)\,k \right) \\ \left( -1 + e^{2\,i\,k\,(\pi+\theta)} \right) - i\,e^{-i\,(\pi-\theta)\,(k\cdot\overline{z})}\,\alpha \right) \left( 2\,\left( 1 + e^{-2\,i\,\pi\,\overline{z}} \right)\,k \right) \right) \\ \left( -1 + e^{2\,i\,k\,(\pi+\theta)} \right) - i\,e^{-i\,(\pi-\theta)\,(k\cdot\overline{z})}\,\alpha \right) \left( 2\,\left( 1 + e^{2\,i\,k\,\pi} \right) \,\alpha \right)\,\mathrm{Csc}\left[k\,\pi\right] - \frac{16\,k^2\,\mathrm{Cos}\left[\pi\,\overline{z}\right]}{4\,k\,\mathrm{Cos}\left[k\,\pi\right] + \alpha\,\mathrm{Sin}\left[k\,\pi\right]} \right) \right) \\ \left( -1 + e^{2\,i\,k\,\pi} \right) \left( e^{2\,i\,k\,\pi} + e^{2\,i\,k\,\theta}\,k - 2\,e^{2\,i\,k\,(\pi+\theta)}\,k \right) + 2\,e^{2\,i\,k\,(\pi+\theta)+\pi\,\overline{z}} \right) \left( 2\,e^{2\,i\,k\,\pi}\,k + 2\,e^{2\,i\,k\,\theta}\,k - 2\,e^{2\,i\,k\,\pi}\,k + 2\,e^{2\,i\,k\,(\pi+\theta)+\pi\,\overline{z}} \right) \right) \\ \left( -1 + e^{2\,i\,k\,\pi} \right) \left( e^{2\,i\,k\,\pi} + e^{2\,i\,k\,\theta}\,k - 2\,e^{2\,i\,k\,(\pi+\theta)}\,k - 2\,e^{2\,i\,k\,(\pi+\theta)+\pi\,\overline{z}} \right) \left( -1 + e^{2\,i\,\kappa\,(\pi+\theta)+\pi\,\overline{z}} \right) \right) \\ \left( e^{i\,(\pi-\theta)\,(k\cdot\overline{z})} - \left( e^{i\,(\pi-\theta)\,(k\cdot\overline{z})}\,k + \frac{2\,e^{2\,i\,k\,(\pi+\theta)+(\pi-\theta)\,\overline{z}} \right) \left( -1 + e^{2\,i\,\pi\,(\kappa+\theta)} \right) \right) k \\ \left( -1 + e^{2\,i\,k\,\pi} \,k + 2\,e^{2\,i\,k\,\theta}\,k + 2\,e^{2\,i\,k\,(\pi+\theta)+(\pi-\theta)+(\pi-\theta)\,\overline{z}} \right) \left( 2\,(1 + e^{-2\,i\,\pi\,\overline{z}}) \right) k \right) \\ \left( -1 + e^{2\,i\,k\,\pi}\,k + 2\,e^{4\,i\,k\,\pi}\,k + 2\,e^{2\,i\,k\,(\pi+\theta)+(\pi-\theta)+(\pi-\theta)} \right) \left( -1\,e^{2\,i\,\kappa\,(\pi+\theta)+(\pi-\theta)} \right) \left( 2\,e^{i\,(\pi-\theta)\,(\kappa-\overline{z})} \right) \left( 2\,e^{i\,(\pi-\theta)+(\pi-\theta)} \right) \left( 2\,e^{i\,(\pi-\theta$$

 $\mathsf{Out}[\mathsf{37}] = \ 0.5$ 

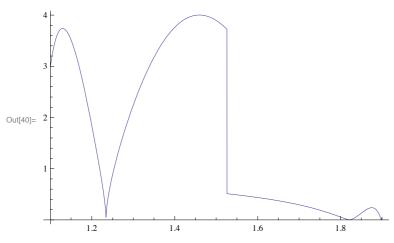
In[38]:=  $\alpha = 0.5$ 

Out[38]= 0.5

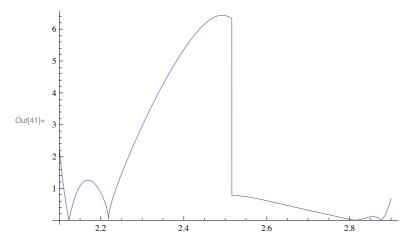
In[39]:= Plot[Abs[char[x,  $\Phi$ ,  $\theta$ ,  $\alpha$ ]], {x, 0.1, 0.9}]



 $_{\text{ln[40]:=}} \ \textbf{Plot[Abs[char[x,\,\Phi,\,\theta,\,\alpha]],\,\{x,\,1.1,\,1.9\}]}$ 



ln[41]:= Plot[Abs[char[x,  $\Phi$ ,  $\theta$ ,  $\alpha$ ]], {x, 2.1, 2.9}]



 $ln[42] := \Phi = 0.01$ 

Out[42]= 0.01

 $ln[43] = \theta = 0.295$ 

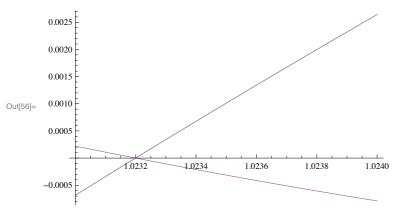
Out[43]= 0.295

 $ln[44] := \alpha = 0.5$ 

Out[44] = 0.5

In[45]:= (\* Далее будем строить втесте графики обеих честей нашей комплексной функции и смотреть за сближением их корней при изменении параметра \*)

 $\label{eq:local_local_local_local} $$ \inf[\{Re[char[x,\Phi,\theta,\alpha]],Im[char[x,\Phi,\theta,\alpha]]\},\{x,1.023,1.024\}]$ $$$ 



ln[57]:= Abs[char[1.0232,  $\Phi$ ,  $\Theta$ ,  $\alpha$ ]]

Out[57]=  $1.75185 \times 10^{-6}$