In[ ]:= $$\int_{-0.5}^{0.5}\int_{-0.5}^{0.5}\sqrt{x^2+y^2}\,dx\,dy$$

Out[ ]= 0.382598

In[ ]:= $$\int_{y0-0.5}^{y0+0.5}\int_{x0-0.5}^{x0+0.5}\sqrt{x^2+y^2}\,dx\,dy$$

Out[ ]= $$\text{ConditionalExpression}\Big[-0.166667\sqrt{0.25+(-1.+x0)\,x0+(-0.5+y0)^2}\,(-0.5+y0)+$$

$$0.333333\,x0\sqrt{0.25+(-1.+x0)\,x0+(-0.5+y0)^2}\,(-0.5+y0)-$$

$$0.166667\sqrt{0.25+x0\,(1.+x0)+(-0.5+y0)^2}\,(-0.5+y0)-$$

$$0.333333\,x0\sqrt{0.25+x0\,(1.+x0)+(-0.5+y0)^2}\,(-0.5+y0)+$$

$$0.166667\,(0.5+y0)\sqrt{0.25+(-1.+x0)\,x0+(0.5+y0)^2}-$$

$$0.333333\,x0\,(0.5+y0)\sqrt{0.25+(-1.+x0)\,x0+(0.5+y0)^2}+$$

$$0.166667\,(0.5+y0)\sqrt{0.25+x0\,(1.+x0)+(0.5+y0)^2}+$$

$$0.333333\,x0\,(0.5+y0)\sqrt{0.25+x0\,(1.+x0)+(0.5+y0)^2}+$$

$$0.166667\,(-0.5+y0)^3\,\text{Log}\Big[-0.5+x0+\sqrt{0.25+(-1.+x0)\,x0+(-0.5+y0)^2}\Big]-$$

$$0.166667\,(-0.5+y0)^3\,\text{Log}\Big[0.5+x0+\sqrt{0.25+x0\,(1.+x0)+(-0.5+y0)^2}\Big]-$$

$$0.0208333\,\text{Log}\Big[-0.5+\sqrt{0.25+(-1.+x0)\,x0+(-0.5+y0)^2}+y0\Big]+$$

$$0.125\,x0\,\text{Log}\Big[-0.5+\sqrt{0.25+(-1.+x0)\,x0+(-0.5+y0)^2}+y0\Big]-$$

$$0.25\,x0^2\,\text{Log}\Big[-0.5+\sqrt{0.25+(-1.+x0)\,x0+(-0.5+y0)^2}+y0\Big]+$$

$$0.166667\,x0^3\,\text{Log}\Big[-0.5+\sqrt{0.25+(-1.+x0)\,x0+(-0.5+y0)^2}+y0\Big]-$$

$$0.0208333\,\text{Log}\Big[-0.5+\sqrt{0.25+x0\,(1.+x0)+(-0.5+y0)^2}+y0\Big]-$$

$$0.125\,x0\,\text{Log}\Big[-0.5+\sqrt{0.25+x0\,(1.+x0)+(-0.5+y0)^2}+y0\Big]-$$

$$0.25\,x0^2\,\text{Log}\Big[-0.5+\sqrt{0.25+x0\,(1.+x0)+(-0.5+y0)^2}+y0\Big]-$$

$$0.166667\,x0^3\,\text{Log}\Big[-0.5+\sqrt{0.25+x0\,(1.+x0)+(-0.5+y0)^2}+y0\Big]-$$

$$0.166667\,(0.5+y0)^3\,\text{Log}\Big[-0.5+x0+\sqrt{0.25+(-1.+x0)\,x0+(0.5+y0)^2}\Big]+$$

$$0.0208333\,\text{Log}\Big[0.5+y0+\sqrt{0.25+(-1.+x0)\,x0+(0.5+y0)^2}\Big]-$$

$$0.125\,x0\,\text{Log}\Big[0.5+y0+\sqrt{0.25+(-1.+x0)\,x0+(0.5+y0)^2}\Big]+$$

$$0.25\,x0^2\,\text{Log}\Big[0.5+y0+\sqrt{0.25+(-1.+x0)\,x0+(0.5+y0)^2}\Big]-$$

$$0.166667\,x0^3\,\text{Log}\Big[0.5+y0+\sqrt{0.25+(-1.+x0)\,x0+(0.5+y0)^2}\Big]+$$

$$0.166667\ (0.5+y0)^3\ \mathrm{Log}\left[0.5+x0+\sqrt{0.25+x0\ (1.+x0)+(0.5+y0)^2}\right]+$$
$$0.0208333\ \mathrm{Log}\left[0.5+y0+\sqrt{0.25+x0\ (1.+x0)+(0.5+y0)^2}\right]+$$
$$0.125\ x0\ \mathrm{Log}\left[0.5+y0+\sqrt{0.25+x0\ (1.+x0)+(0.5+y0)^2}\right]+$$
$$0.25\ x0^2\ \mathrm{Log}\left[0.5+y0+\sqrt{0.25+x0\ (1.+x0)+(0.5+y0)^2}\right]+$$
$$0.166667\ x0^3\ \mathrm{Log}\left[0.5+y0+\sqrt{0.25+x0\ (1.+x0)+(0.5+y0)^2}\right],$$

$$\Bigg(x0\in\mathbb{R}\ \&\&\ \mathrm{Re}[y0]>0.5\ \&\&-\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\ \mathrm{Re}[y0]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]\neq 0\Bigg)\ ||$$

$$\Bigg(x0\in\mathbb{R}\ \&\&\ \mathrm{Re}[y0]<-0.5\ \&\&-\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\ \mathrm{Re}[y0]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]\neq 0\Bigg)\ ||\ \Bigg(\mathrm{Re}[y0]>0.5\ \&\&-\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\ \mathrm{Re}[y0]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&-1.\ \mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\Bigg)\ ||$$

$$\Bigg(\mathrm{Re}[y0]>0.5\ \&\&-\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\ \mathrm{Re}[y0]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&\ 1.\ \mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\Bigg)\ ||$$

$$\Bigg(\mathrm{Re}[y0]>0.5\ \&\&-\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\ \mathrm{Re}[y0]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq$$

$$0.5\ \&\&\ \mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ 1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0]>0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\ \&\&\ \mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&\ \mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ -1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\Big)\ ||$$

$$\Big(x0\in\mathbb{R}\ \&\&\ \mathrm{Re}[y0]>0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\ \&\&\ \mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&\ \mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]\neq 0\ \&\&\ \frac{0.500000000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.00000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-1.00000000000000000000\,\mathrm{Re}[y0]\geq 0.5000000000000000000\Big)\ ||$$

$$\Big(\mathrm{Re}[y0]<-0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\ \&\&\ \mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&\ \mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&\ -1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0]<-0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\ \&\&\ \mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&\ \mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&\ 1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0]<-0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\Big)\;||$$

$$\Big(\mathrm{Re}[y0]<-0.5\,\&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&-1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\Big)\;||$$

$$\Big(x0\in\mathbb{R}\,\&\&\,\mathrm{Re}[y0]<-0.5\,\&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&\,\mathrm{Re}\Big[y0+$$

$$\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\Big]\geq -0.5\,\&\&$$

$$\mathrm{Im}[y0]\neq 0\,\&\&\,\frac{0.5000000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-$$

$$1.000000000000000000\,\mathrm{Re}[y0]\geq 0.5000000000000000\Big)\;||$$

$$\Big(\mathrm{Re}[y0]>0.5\,\&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$

$$-0.5\,\&\&\,\mathrm{Im}[y0]>0\,\&\&\,\mathrm{Im}[x0]>0\,\&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\Big)\;||$$

$$\Big(\mathrm{Re}[y0]>0.5\,\&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$

$$-0.5\,\&\&\,\mathrm{Im}[y0]>0\,\&\&\,\mathrm{Im}[x0]>0\,\&\&\,\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\Big)\;||$$

$$\begin{aligned}&\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq\\ &\quad -0.5 \;\&\&\; \mathrm{Im}[y0] > 0 \;\&\&\; \mathrm{Im}[x0] < 0 \;\&\&\; \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\Bigg) \;||\end{aligned}$$

$$\begin{aligned}&\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq\\ &\quad -0.5 \;\&\&\; \mathrm{Im}[y0] > 0 \;\&\&\; \mathrm{Im}[x0] < 0 \;\&\&\; -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Bigg) \;||\end{aligned}$$

$$\begin{aligned}&\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq\\ &\quad -0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&\; \mathrm{Im}[x0] > 0 \;\&\&\; \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\Bigg) \;||\end{aligned}$$

$$\begin{aligned}&\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq\\ &\quad -0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&\; \mathrm{Im}[x0] > 0 \;\&\&\; -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Bigg) \;||\end{aligned}$$

$$\begin{aligned}&\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&\\ &\quad \mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq\\ &\quad -0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&\; \mathrm{Im}[x0] < 0 \;\&\&\; -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\Bigg) \;||\end{aligned}$$

$\Big(\mathrm{Re}[y0] > 0.5 \,\&\&\, -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \geq 0.5 \,\&\&$
$\mathrm{Re}\Big[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\Big] \geq$
$0.5 \,\&\&$
$\mathrm{Re}\Big[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\Big] \geq$
$-0.5 \,\&\&\, \mathrm{Im}[y0] < 0 \,\&\&\, \mathrm{Im}[x0] < 0 \,\&\&\, \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Big) \,||$

$\Big(\mathrm{Re}[y0] > 0.5 \,\&\&\, -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \leq -0.5 \,\&\&$
$\mathrm{Re}\Big[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\Big] \geq$
$0.5 \,\&\&$
$\mathrm{Re}\Big[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\Big] \geq$
$-0.5 \,\&\&\, \mathrm{Im}[y0] > 0 \,\&\&\, -1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \geq 0.5 \,\&\&$
$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.00000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$
$1.00000000000000000\,\mathrm{Re}[y0] \geq 0.5000000000000000\Big) \,||$

$\Big(\mathrm{Re}[y0] > 0.5 \,\&\&\, -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \leq -0.5 \,\&\&$
$\mathrm{Re}\Big[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\Big] \geq$
$0.5 \,\&\&$
$\mathrm{Re}\Big[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\Big] \geq$
$-0.5 \,\&\&\, \mathrm{Im}[y0] > 0 \,\&\&\, 1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \leq 0.5 \,\&\&$
$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.00000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$
$1.00000000000000000\,\mathrm{Re}[y0] \geq 0.5000000000000000\Big) \,||$

$\Big(\mathrm{Re}[y0] > 0.5 \,\&\&\, -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \leq -0.5 \,\&\&$
$\mathrm{Re}\Big[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\Big] \geq$
$0.5 \,\&\&$
$\mathrm{Re}\Big[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\Big] \geq$
$-0.5 \,\&\&\, \mathrm{Im}[y0] < 0 \,\&\&\, 1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \geq 0.5 \,\&\&$
$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.00000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$
$1.00000000000000000\,\mathrm{Re}[y0] \geq 0.5000000000000000\Big) \,||$

$$\Bigg(\mathrm{Re}[y0] > 0.5 \,\&\&\, -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \le -0.5 \,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5 \,\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \ge -0.5 \,\&\&\, \mathrm{Im}[y0] < 0 \,\&\&\, -1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \le 0.5 \,\&\&$$

$$\frac{0.5000000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} - 1.000000000000000000\,\mathrm{Re}[y0] \ge 0.5000000000000000\Bigg) \,||\, \Bigg(\mathrm{Re}[y0] > 0.5 \,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5 \,\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \ge -0.5 \,\&\&\, \mathrm{Im}[y0] > 0 \,\&\&\, -1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \ge 0.5 \,\&\&\, \mathrm{Re}[x0] > 0.5 \,\&\&$$

$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \ge 0 \,\&\&\, \mathrm{Im}[y0] - 1.\,\mathrm{Re}[x0] \le -0.5\Bigg) \,||\, \Bigg(\mathrm{Re}[y0] > 0.5 \,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5 \,\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \ge -0.5 \,\&\&\, \mathrm{Im}[y0] > 0 \,\&\&\, -1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \ge 0.5 \,\&\&\, \mathrm{Re}[x0] < 0.5 \,\&\&$$

$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \ge 0 \,\&\&\, \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \le 0.5\Bigg) \,||\, \Bigg(\mathrm{Re}[y0] > 0.5 \,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5 \,\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \ge -0.5 \,\&\&\, \mathrm{Im}[y0] > 0 \,\&\&\, 1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \le 0.5 \,\&\&\, \mathrm{Re}[x0] > 0.5 \,\&\&$$

$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \ge 0 \,\&\&\, \mathrm{Im}[y0] - 1.\,\mathrm{Re}[x0] \le -0.5\Bigg) \,||\, \Bigg(\mathrm{Re}[y0] > 0.5 \,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \ge$$

$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]>0\,\&\&\,1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\,\&\&\,\mathrm{Re}[x0]<0.5\,\&\&$$
$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5)\;||\;(\mathrm{Re}[y0]>0.5\,\&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\,\&\&\,\mathrm{Re}[x0]>0.5\,\&\&$$
$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5)\;||\;(\mathrm{Re}[y0]>0.5\,\&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\,\&\&\,\mathrm{Re}[x0]<0.5\,\&\&$$
$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5)\;||\;(\mathrm{Re}[y0]>0.5\,\&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,-1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\,\&\&\,\mathrm{Re}[x0]>0.5\,\&\&$$
$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5)\;||\;(\mathrm{Re}[y0]>0.5\,\&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ -1.\ \mathrm{Im}[y0] + \mathrm{Re}[x0] \le 0.5\ \&\&\ \mathrm{Re}[x0] < 0.5\ \&\&$$

$$0.25 - 1.\ \mathrm{Im}[x0]^2 + \frac{0.25\ \mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\ \mathrm{Im}[y0]^2 - 1.\ \mathrm{Re}[x0] - \frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\ \mathrm{Re}[x0]^2 + \frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \ge 0\ \&\&\ -\mathrm{Im}[y0] + 1.\ \mathrm{Re}[x0] \le 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0] < -0.5\ \&\&\ -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (0.5 + y0)^2}\right] \ge$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ \mathrm{Im}[x0] > 0\ \&\&\ -\frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\ \mathrm{Re}[x0] + \frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \ge 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0] < -0.5\ \&\&\ -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (0.5 + y0)^2}\right] \ge$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ \mathrm{Im}[x0] > 0\ \&\&\ \frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \le 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0] < -0.5\ \&\&\ -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (0.5 + y0)^2}\right] \ge$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ \mathrm{Im}[x0] < 0\ \&\&\ \frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \ge 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0] < -0.5\ \&\&\ -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (0.5 + y0)^2}\right] \ge$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ \mathrm{Im}[x0] < 0\ \&\&\ -\frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\ \mathrm{Re}[x0] + \frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \le 0.5\Big)\ ||$$

$$\Big(\mathrm{Re}[y0] < -0.5\ \&\&\ -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \ge 0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \ge$$

$$0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$\left.-0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ \mathrm{Im}[x0]>0\ \&\&\ \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\ \&\&\right.$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$\left.-0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ \mathrm{Im}[x0]>0\ \&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\ \&\&\right.$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$\left.-0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ \mathrm{Im}[x0]<0\ \&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\geq 0.5\ \&\&\right.$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$\left.-0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ \mathrm{Im}[x0]<0\ \&\&\ \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\ \&\&\right.$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&-1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\ \&\&$$
$$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.00000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-$$
$$\left.1.00000000000000000\,\mathrm{Re}[y0]\geq 0.500000000000000\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\ \&\&\right.$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5 \;\&\&\; \text{Im}[y0] > 0 \;\&\&\; 1.\, \text{Im}[y0] + \text{Re}[x0] \leq 0.5 \;\&\&$$

$$\frac{0.500000000000000000\, \text{Im}[x0]}{\text{Im}[y0]} - \frac{1.000000000000000000\, \text{Im}[x0]\, \text{Re}[x0]}{\text{Im}[y0]} - 1.000000000000000000\, \text{Re}[y0] \geq 0.5000000000000000 \Big) \;||$$

$$\Big(\text{Re}[y0] < -0.5 \;\&\&\; -\frac{0.5\, \text{Im}[x0]}{\text{Im}[y0]} + \frac{1.\, \text{Im}[x0]\, \text{Re}[x0]}{\text{Im}[y0]} + 1.\, \text{Re}[y0] \leq -0.5 \;\&\&$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5 \;\&\&\; \text{Im}[y0] < 0 \;\&\&\; 1.\, \text{Im}[y0] + \text{Re}[x0] \geq 0.5 \;\&\&$$

$$\frac{0.500000000000000000\, \text{Im}[x0]}{\text{Im}[y0]} - \frac{1.000000000000000000\, \text{Im}[x0]\, \text{Re}[x0]}{\text{Im}[y0]} - 1.000000000000000000\, \text{Re}[y0] \geq 0.5000000000000000 \Big) \;||$$

$$\Big(\text{Re}[y0] < -0.5 \;\&\&\; -\frac{0.5\, \text{Im}[x0]}{\text{Im}[y0]} + \frac{1.\, \text{Im}[x0]\, \text{Re}[x0]}{\text{Im}[y0]} + 1.\, \text{Re}[y0] \leq -0.5 \;\&\&$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5 \;\&\&\; \text{Im}[y0] < 0 \;\&\&\; -1.\, \text{Im}[y0] + \text{Re}[x0] \leq 0.5 \;\&\&$$

$$\frac{0.500000000000000000\, \text{Im}[x0]}{\text{Im}[y0]} - \frac{1.000000000000000000\, \text{Im}[x0]\, \text{Re}[x0]}{\text{Im}[y0]} - 1.000000000000000000\, \text{Re}[y0] \geq 0.5000000000000000 \Big) \;||\; \Big(\text{Re}[y0] < -0.5 \;\&\&$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5 \;\&\&\; \text{Im}[y0] > 0 \;\&\&\; -1.\, \text{Im}[y0] + \text{Re}[x0] \geq 0.5 \;\&\&\; \text{Re}[x0] > 0.5 \;\&\&$$

$$0.25 - 1.\, \text{Im}[x0]^2 + \frac{0.25\, \text{Im}[x0]^2}{\text{Im}[y0]^2} - 1.\, \text{Im}[y0]^2 - 1.\, \text{Re}[x0] - \frac{1.\, \text{Im}[x0]^2\, \text{Re}[x0]}{\text{Im}[y0]^2} +$$

$$1.\, \text{Re}[x0]^2 + \frac{1.\, \text{Im}[x0]^2\, \text{Re}[x0]^2}{\text{Im}[y0]^2} \geq 0 \;\&\&\; \text{Im}[y0] - 1.\, \text{Re}[x0] \leq -0.5 \Big) \;||\; \Big(\text{Re}[y0] < -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ -1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \geq 0.5\ \&\&\ \mathrm{Re}[x0] < 0.5\ \&\&$$
$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} + 1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&\ \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Bigg)\ ||\ \Bigg(\mathrm{Re}[y0] < -0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ 1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \leq 0.5\ \&\&\ \mathrm{Re}[x0] > 0.5\ \&\&$$
$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} + 1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&\ \mathrm{Im}[y0] - 1.\,\mathrm{Re}[x0] \leq -0.5\Bigg)\ ||\ \Bigg(\mathrm{Re}[y0] < -0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ 1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \leq 0.5\ \&\&\ \mathrm{Re}[x0] < 0.5\ \&\&$$
$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} + 1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&\ \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Bigg)\ ||\ \Bigg(\mathrm{Re}[y0] < -0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ 1.\,\mathrm{Im}[y0] + \mathrm{Re}[x0] \geq 0.5\ \&\&\ \mathrm{Re}[x0] > 0.5\ \&\&$$
$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} + 1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&\ \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \geq 0.5\Bigg)\ ||\ \Bigg(\mathrm{Re}[y0] < -0.5\ \&\&$$
$$\mathrm{Re}\left[\sqrt{0.250000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\geq 0.5\,\&\&\,\mathrm{Re}[x0]<0.5\,\&\&$$

$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5\Bigg)\;||\;\Bigg(\mathrm{Re}[y0]<-0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,-1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\,\&\&\,\mathrm{Re}[x0]>0.5\,\&\&$$

$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5\Bigg)\;||\;\Bigg(\mathrm{Re}[y0]<-0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,-1.\,\mathrm{Im}[y0]+\mathrm{Re}[x0]\leq 0.5\,\&\&\,\mathrm{Re}[x0]<0.5\,\&\&$$

$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5\Bigg)\;||\;\Bigg(x0\in\mathbb{R}\,\&\&\,\mathrm{Re}[y0]>0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]>0\,\&\&\,\mathrm{Re}[x0]>0.5\,\&\&\,0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-$$

$$1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&$$

$$\mathrm{Im}[y0]-1.\,\mathrm{Re}[x0]\leq -0.5\Bigg)\;||\;\Bigg(x0\in\mathbb{R}\,\&\&\,\mathrm{Re}[y0]>0.5\,\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&\ \mathrm{Re}[x0]<0.5\ \&\&\ 0.25-1.\ \mathrm{Im}[x0]^2+\frac{0.25\ \mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\ \mathrm{Im}[y0]^2-$$

$$1.\ \mathrm{Re}[x0]-\frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\ \mathrm{Re}[x0]^2+\frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\ \&\&$$

$$\left.\mathrm{Im}[y0]+1.\ \mathrm{Re}[x0]\leq 0.5\right)\ ||\ \left(x0\in\mathbb{R}\ \&\&\ \mathrm{Re}[y0]>0.5\ \&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq$$

$$0.5\ \&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(0.5+y0)^2}\right]\geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ \mathrm{Re}[x0]>0.5\ \&\&\ 0.25-1.\ \mathrm{Im}[x0]^2+\frac{0.25\ \mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\ \mathrm{Im}[y0]^2-$$

$$1.\ \mathrm{Re}[x0]-\frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\ \mathrm{Re}[x0]^2+\frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\ \&\&$$

$$\left.\mathrm{Im}[y0]+1.\ \mathrm{Re}[x0]\geq 0.5\right)\ ||\ \left(x0\in\mathbb{R}\ \&\&\ \mathrm{Re}[y0]>0.5\ \&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq$$

$$0.5\ \&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(0.5+y0)^2}\right]\geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&\ \mathrm{Re}[x0]<0.5\ \&\&$$

$$0.25-1.\ \mathrm{Im}[x0]^2+\frac{0.25\ \mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\ \mathrm{Im}[y0]^2-1.\ \mathrm{Re}[x0]-\frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$

$$\left.1.\ \mathrm{Re}[x0]^2+\frac{1.\ \mathrm{Im}[x0]^2\ \mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\ \&\&\ -\mathrm{Im}[y0]+1.\ \mathrm{Re}[x0]\leq 0.5\right)\ ||$$

$$\left(\mathrm{Re}[y0]>0.5\ \&\&\ -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\ \mathrm{Re}[y0]\leq -0.5\ \&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(-0.5+y0)^2}+y0\right]\geq$$

$$0.5\ \&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\ x0+(0.5+y0)^2}\right]\geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&$$

$$\frac{0.500000000000000000\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.00000000000000000\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}-$$

$$1.00000000000000000\ \mathrm{Re}[y0]\geq 0.500000000000000\ \&\&$$

$$\left.\mathrm{Im}[x0]>0\ \&\&\ -\frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\ \mathrm{Re}[x0]+\frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\right)\ ||$$

$$\left(\mathrm{Re}[y0]>0.5\ \&\&\ -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\ \mathrm{Re}[y0]\leq -0.5\ \&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5 \;\&\&\; \mathrm{Im}[y0] > 0 \;\&\&\; \frac{0.5000000000000000000\, \mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\, \mathrm{Im}[x0]\, \mathrm{Re}[x0]}{\mathrm{Im}[y0]} - 1.000000000000000000\, \mathrm{Re}[y0] \geq$$

$$0.5000000000000000 \;\&\&\; \mathrm{Im}[x0] > 0 \;\&\&\; \frac{0.5\, \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\, \mathrm{Im}[y0]\, \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Bigg) \;||$$

$$\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\, \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\, \mathrm{Im}[x0]\, \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\, \mathrm{Re}[y0] \leq -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5 \;\&\&\; \mathrm{Im}[y0] > 0 \;\&\&\; \frac{0.5000000000000000000\, \mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\, \mathrm{Im}[x0]\, \mathrm{Re}[x0]}{\mathrm{Im}[y0]} - 1.000000000000000000\, \mathrm{Re}[y0] \geq$$

$$0.5000000000000000 \;\&\&\; \mathrm{Im}[x0] < 0 \;\&\&\; \frac{0.5\, \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\, \mathrm{Im}[y0]\, \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\Bigg) \;||$$

$$\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\, \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\, \mathrm{Im}[x0]\, \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\, \mathrm{Re}[y0] \leq -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5 \;\&\&\; \mathrm{Im}[y0] > 0 \;\&\&$$

$$\frac{0.5000000000000000000\, \mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\, \mathrm{Im}[x0]\, \mathrm{Re}[x0]}{\mathrm{Im}[y0]} - 1.000000000000000000\, \mathrm{Re}[y0] \geq 0.5000000000000000 \;\&\&$$

$$\mathrm{Im}[x0] < 0 \;\&\&\; -\frac{0.5\, \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\, \mathrm{Re}[x0] + \frac{1.\, \mathrm{Im}[y0]\, \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Bigg) \;||$$

$$\Bigg(\mathrm{Re}[y0] > 0.5 \;\&\&\; -\frac{0.5\, \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\, \mathrm{Im}[x0]\, \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\, \mathrm{Re}[y0] \leq -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ \frac{0.5000000000000000000\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} -$$

$$\frac{1.000000000000000000\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} - 1.000000000000000000\ \mathrm{Re}[y0] \geq$$

$$0.5000000000000000\ \&\&\ \mathrm{Im}[x0] > 0\ \&\&\ \frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\Bigg)\ \|$$

$$\Bigg(\mathrm{Re}[y0] > 0.5\ \&\& -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \leq -0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (0.5 + y0)^2}\right] \geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&$$

$$\frac{0.5000000000000000000\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$$

$$1.000000000000000000\ \mathrm{Re}[y0] \geq 0.5000000000000000\ \&\&$$

$$\mathrm{Im}[x0] > 0\ \&\& -\frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\ \mathrm{Re}[x0] + \frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Bigg)\ \|$$

$$\Bigg(\mathrm{Re}[y0] > 0.5\ \&\& -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \leq -0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (0.5 + y0)^2}\right] \geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&$$

$$\frac{0.5000000000000000000\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$$

$$1.000000000000000000\ \mathrm{Re}[y0] \geq 0.5000000000000000\ \&\&$$

$$\mathrm{Im}[x0] < 0\ \&\& -\frac{0.5\ \mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\ \mathrm{Re}[x0] + \frac{1.\ \mathrm{Im}[y0]\ \mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\Bigg)\ \|$$

$$\Bigg(\mathrm{Re}[y0] > 0.5\ \&\& -\frac{0.5\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\ \mathrm{Re}[y0] \leq -0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\ x0 + (0.5 + y0)^2}\right] \geq$$

$$-0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&$$

$$\frac{0.5000000000000000000\ \mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\ \mathrm{Im}[x0]\ \mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$$

$$1.000000000000000000\ \mathrm{Re}[y0] \geq 0.5000000000000000\ \&\&\ \mathrm{Im}[x0] < 0\ \&\&$$

$$\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\le 0.5\Bigg) \;||\; \Bigg(\mathrm{Re}[y0]>0.5\;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\ge$$
$$0.5\;\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\ge$$
$$-0.5\;\&\&\;\mathrm{Im}[y0]>0\;\&\&\;\mathrm{Im}[x0]>0\;\&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\ge 0.5\;\&\&$$
$$\mathrm{Re}[x0]>0.5\;\&\&\;0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\ge 0\;\&\&\;\mathrm{Im}[y0]-1.\,\mathrm{Re}[x0]\le -0.5\Bigg) \;||\; \Bigg(\mathrm{Re}[y0]>0.5\;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\ge$$
$$0.5\;\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\ge$$
$$-0.5\;\&\&\;\mathrm{Im}[y0]>0\;\&\&\;\mathrm{Im}[x0]>0\;\&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\ge 0.5\;\&\&$$
$$\mathrm{Re}[x0]<0.5\;\&\&\;0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\ge 0\;\&\&\;\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\le 0.5\Bigg) \;||\; \Bigg(\mathrm{Re}[y0]>0.5\;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\ge$$
$$0.5\;\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\ge$$
$$-0.5\;\&\&\;\mathrm{Im}[y0]>0\;\&\&\;\mathrm{Im}[x0]>0\;\&\&\;\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\le 0.5\;\&\&$$
$$\mathrm{Re}[x0]>0.5\;\&\&\;0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\ge 0\;\&\&\;\mathrm{Im}[y0]-1.\,\mathrm{Re}[x0]\le -0.5\Bigg) \;||\; \Bigg(\mathrm{Re}[y0]>0.5\;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\ge$$
$$0.5\;\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\ge$$
$$-0.5\;\&\&\;\mathrm{Im}[y0]>0\;\&\&\;\mathrm{Im}[x0]>0\;\&\&\;\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\le 0.5\;\&\&$$

$$\text{Re}[x0] < 0.5 \;\&\&\; 0.25 - 1.\,\text{Im}[x0]^2 + \frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2} - 1.\,\text{Im}[y0]^2 - 1.\,\text{Re}[x0] - \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2} +$$

$$1.\,\text{Re}[x0]^2 + \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2} \geq 0 \;\&\&\; \text{Im}[y0] + 1.\,\text{Re}[x0] \leq 0.5\Big) \;||\; \Big(\text{Re}[y0] > 0.5 \;\&\&$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$$-0.5 \;\&\&\; \text{Im}[y0] > 0 \;\&\&\; \text{Im}[x0] < 0 \;\&\&\; \frac{0.5\,\text{Im}[y0]}{\text{Im}[x0]} + \text{Re}[x0] + \frac{1.\,\text{Im}[y0]\,\text{Re}[y0]}{\text{Im}[x0]} \geq 0.5 \;\&\&$$

$$\text{Re}[x0] > 0.5 \;\&\&\; 0.25 - 1.\,\text{Im}[x0]^2 + \frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2} - 1.\,\text{Im}[y0]^2 - 1.\,\text{Re}[x0] - \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2} +$$

$$1.\,\text{Re}[x0]^2 + \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2} \geq 0 \;\&\&\; \text{Im}[y0] - 1.\,\text{Re}[x0] \leq -0.5\Big) \;||\; \Big(\text{Re}[y0] > 0.5 \;\&\&$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$$-0.5 \;\&\&\; \text{Im}[y0] > 0 \;\&\&\; \text{Im}[x0] < 0 \;\&\&\; \frac{0.5\,\text{Im}[y0]}{\text{Im}[x0]} + \text{Re}[x0] + \frac{1.\,\text{Im}[y0]\,\text{Re}[y0]}{\text{Im}[x0]} \geq 0.5 \;\&\&$$

$$\text{Re}[x0] < 0.5 \;\&\&\; 0.25 - 1.\,\text{Im}[x0]^2 + \frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2} - 1.\,\text{Im}[y0]^2 - 1.\,\text{Re}[x0] - \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2} +$$

$$1.\,\text{Re}[x0]^2 + \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2} \geq 0 \;\&\&\; \text{Im}[y0] + 1.\,\text{Re}[x0] \leq 0.5\Big) \;||\; \Big(\text{Re}[y0] > 0.5 \;\&\&$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$$-0.5 \;\&\&\; \text{Im}[y0] > 0 \;\&\&\; \text{Im}[x0] < 0 \;\&\&\; -\frac{0.5\,\text{Im}[y0]}{\text{Im}[x0]} + 1.\,\text{Re}[x0] + \frac{1.\,\text{Im}[y0]\,\text{Re}[y0]}{\text{Im}[x0]} \leq 0.5 \;\&\&$$

$$\text{Re}[x0] > 0.5 \;\&\&\; 0.25 - 1.\,\text{Im}[x0]^2 + \frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2} - 1.\,\text{Im}[y0]^2 - 1.\,\text{Re}[x0] - \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2} +$$

$$1.\,\text{Re}[x0]^2 + \frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2} \geq 0 \;\&\&\; \text{Im}[y0] - 1.\,\text{Re}[x0] \leq -0.5\Big) \;||\; \Big(\text{Re}[y0] > 0.5 \;\&\&$$

$$\text{Re}\left[\sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\text{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.0000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$$-0.5 \;\&\&\; \mathrm{Im}[y0] > 0 \;\&\&\; \mathrm{Im}[x0] < 0 \;\&\&\; -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5 \;\&\&$$

$$\mathrm{Re}[x0] < 0.5 \;\&\&\; 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \;\&\&\; \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Big) \;||\; \Big(\mathrm{Re}[y0] > 0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq$$

$$-0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&\; \mathrm{Im}[x0] > 0 \;\&\&\; \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5 \;\&\&$$

$$\mathrm{Re}[x0] > 0.5 \;\&\&\; 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \;\&\&\; \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \geq 0.5\Big) \;||\; \Big(\mathrm{Re}[y0] > 0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq$$

$$-0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&\; \mathrm{Im}[x0] > 0 \;\&\&\; \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5 \;\&\&$$

$$\mathrm{Re}[x0] < 0.5 \;\&\&\; 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \;\&\&\; -\mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Big) \;||\; \Big(\mathrm{Re}[y0] > 0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\right] \geq$$

$$-0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&\; \mathrm{Im}[x0] > 0 \;\&\&\; -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5 \;\&\&$$

$$\mathrm{Re}[x0] > 0.5 \;\&\&\; 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \;\&\&\; \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \geq 0.5\Big) \;||\; \Big(\mathrm{Re}[y0] > 0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5 \;\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Im}[x0]>0\,\&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\,\&\&$$
$$\mathrm{Re}[x0]<0.5\,\&\&\,0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5\Big)\;||\;\Big(\mathrm{Re}[y0]>0.5\,\&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Im}[x0]<0\,\&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\,\&\&$$
$$\mathrm{Re}[x0]>0.5\,\&\&\,0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5\Big)\;||\;\Big(\mathrm{Re}[y0]>0.5\,\&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Im}[x0]<0\,\&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\,\&\&$$
$$\mathrm{Re}[x0]<0.5\,\&\&\,0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5\Big)\;||\;\Big(\mathrm{Re}[y0]>0.5\,\&\&$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Im}[x0]<0\,\&\&\,\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\,\&\&$$
$$\mathrm{Re}[x0]>0.5\,\&\&\,0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$
$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5\Big)\;||\;\Big(\mathrm{Re}[y0]>0.5\,\&\&$$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$
$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ \mathrm{Im}[x0] < 0\ \&\&\ \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\ \&\&$
$\mathrm{Re}[x0] < 0.5\ \&\&\ 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} + 1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&$
$\left.-\mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\right)\ ||\ \left(x0 \in \mathbb{R}\ \&\&\ \mathrm{Re}[y0] < -0.5\ \&\&\right.$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$
$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ \mathrm{Re}[x0] > 0.5\ \&\&\ 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 -$
$1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} + 1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&$
$\left.\mathrm{Im}[y0] - 1.\,\mathrm{Re}[x0] \leq -0.5\right)\ ||\ \left(x0 \in \mathbb{R}\ \&\&\ \mathrm{Re}[y0] < -0.5\ \&\&\right.$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$
$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] > 0\ \&\&\ \mathrm{Re}[x0] < 0.5\ \&\&\ 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 -$
$1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} + 1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&$
$\left.\mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\right)\ ||\ \left(x0 \in \mathbb{R}\ \&\&\ \mathrm{Re}[y0] < -0.5\ \&\&\right.$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$
$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\, x0 + (0.5 + y0)^2}\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ \mathrm{Re}[x0] > 0.5\ \&\&\ 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 -$

$$1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&$$

$$\left.\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5\right)\;||\;\left(x0\in\mathbb{R}\,\&\&\,\mathrm{Re}[y0]<-0.5\,\&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Re}[x0]<0.5\,\&\&$$

$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$

$$\left.1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5\right)\;||$$

$$\left(\mathrm{Re}[y0]<-0.5\,\&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\,\&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]>0\,\&\&$$

$$\frac{0.5000000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-1.000000000000000000\,\mathrm{Re}[y0]\geq 0.5000000000000000\,\&\&$$

$$\left.\mathrm{Im}[x0]>0\,\&\&-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\right)\;||$$

$$\left(\mathrm{Re}[y0]<-0.5\,\&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\,\&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\,\&\&$$

$$\mathrm{Re}\left[y0+\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\,\&\&\,\mathrm{Im}[y0]>0\,\&\&$$

$$\frac{0.5000000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-1.000000000000000000\,\mathrm{Re}[y0]\geq 0.5000000000000000\,\&\&$$

$$\left.\mathrm{Im}[x0]>0\,\&\&\,\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\right)\;||$$

$$\left(\mathrm{Re}[y0]<-0.5\,\&\&-\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\,\&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$

$$0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&$$
$$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-1.000000000000000000\,\mathrm{Re}[y0]\geq 0.5000000000000000\ \&\&$$
$$\left.\mathrm{Im}[x0]<0\ \&\&\ \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\ \&\&\right.$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]>0\ \&\&$$
$$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-1.000000000000000000\,\mathrm{Re}[y0]\geq 0.5000000000000000\ \&\&$$
$$\left.\mathrm{Im}[x0]<0\ \&\&\ -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\ \&\&\right.$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&$$
$$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-1.000000000000000000\,\mathrm{Re}[y0]\geq 0.5000000000000000\ \&\&$$
$$\left.\mathrm{Im}[x0]>0\ \&\&\ \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\right)\ ||$$
$$\left(\mathrm{Re}[y0]<-0.5\ \&\&\ -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}+\frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}+1.\,\mathrm{Re}[y0]\leq -0.5\ \&\&\right.$$
$$\mathrm{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq 0.5\ \&\&$$
$$\mathrm{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\right]\geq -0.5\ \&\&\ \mathrm{Im}[y0]<0\ \&\&$$
$$\frac{0.500000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]}-\frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]}-$$

$$1.000000000000000000\,\mathrm{Re}[y0] \geq 0.5000000000000000 \;\&\&$$

$$\mathrm{Im}[x0] > 0 \;\&\& -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Big) \;||$$

$$\Big(\mathrm{Re}[y0] < -0.5 \;\&\& -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \leq -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$$-0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&$$

$$\frac{0.5000000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$$

$$1.000000000000000000\,\mathrm{Re}[y0] \geq 0.5000000000000000 \;\&\&$$

$$\mathrm{Im}[x0] < 0 \;\&\& -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\Big) \;||$$

$$\Big(\mathrm{Re}[y0] < -0.5 \;\&\& -\frac{0.5\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} + \frac{1.\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} + 1.\,\mathrm{Re}[y0] \leq -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$$-0.5 \;\&\&\; \mathrm{Im}[y0] < 0 \;\&\&$$

$$\frac{0.5000000000000000000\,\mathrm{Im}[x0]}{\mathrm{Im}[y0]} - \frac{1.000000000000000000\,\mathrm{Im}[x0]\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]} -$$

$$1.000000000000000000\,\mathrm{Re}[y0] \geq 0.5000000000000000 \;\&\&\; \mathrm{Im}[x0] < 0 \;\&\&$$

$$\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\Big) \;||\; \Big(\mathrm{Re}[y0] < -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$$-0.5 \;\&\&\; \mathrm{Im}[y0] > 0 \;\&\&\; \mathrm{Im}[x0] > 0 \;\&\& -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5 \;\&\&$$

$$\mathrm{Re}[x0] > 0.5 \;\&\&\; 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \;\&\&\; \mathrm{Im}[y0] - 1.\,\mathrm{Re}[x0] \leq -0.5\Big) \;||\; \Big(\mathrm{Re}[y0] < -0.5 \;\&\&$$

$$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$$

$$0.5 \;\&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$$

$-0.5 \&\& \mathrm{Im}[y0] > 0 \&\& \mathrm{Im}[x0] > 0 \&\& -\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5 \&\&$

$\mathrm{Re}[x0] < 0.5 \&\& 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$

$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \&\& \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Big) \,||\, \Big(\mathrm{Re}[y0] < -0.5 \&\&$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$

$0.5 \&\&$

$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$

$-0.5 \&\& \mathrm{Im}[y0] > 0 \&\& \mathrm{Im}[x0] > 0 \&\& \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5 \&\&$

$\mathrm{Re}[x0] > 0.5 \&\& 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$

$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \&\& \mathrm{Im}[y0] - 1.\,\mathrm{Re}[x0] \leq -0.5\Big) \,||\, \Big(\mathrm{Re}[y0] < -0.5 \&\&$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$

$0.5 \&\&$

$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$

$-0.5 \&\& \mathrm{Im}[y0] > 0 \&\& \mathrm{Im}[x0] > 0 \&\& \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5 \&\&$

$\mathrm{Re}[x0] < 0.5 \&\& 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$

$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \&\& \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Big) \,||\, \Big(\mathrm{Re}[y0] < -0.5 \&\&$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$

$0.5 \&\&$

$\mathrm{Re}\left[y0 + \sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq$

$-0.5 \&\& \mathrm{Im}[y0] > 0 \&\& \mathrm{Im}[x0] < 0 \&\& \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5 \&\&$

$\mathrm{Re}[x0] > 0.5 \&\& 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$

$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0 \&\& \mathrm{Im}[y0] - 1.\,\mathrm{Re}[x0] \leq -0.5\Big) \,||\, \Big(\mathrm{Re}[y0] < -0.5 \&\&$

$\mathrm{Re}\left[\sqrt{0.25000000000000000000 + (-1.00000000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq$

$0.5 \&\&$

$$\text{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\text{Im}[y0]>0\,\&\&\,\text{Im}[x0]<0\,\&\&\,\frac{0.5\,\text{Im}[y0]}{\text{Im}[x0]}+\text{Re}[x0]+\frac{1.\,\text{Im}[y0]\,\text{Re}[y0]}{\text{Im}[x0]}\geq 0.5\,\&\&$$
$$\text{Re}[x0]<0.5\,\&\&\,0.25-1.\,\text{Im}[x0]^2+\frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2}-1.\,\text{Im}[y0]^2-1.\,\text{Re}[x0]-\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2}+$$
$$\left.1.\,\text{Re}[x0]^2+\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2}\geq 0\,\&\&\,\text{Im}[y0]+1.\,\text{Re}[x0]\leq 0.5\right)\;||\;\left(\text{Re}[y0]<-0.5\,\&\&\right.$$
$$\text{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\text{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\text{Im}[y0]>0\,\&\&\,\text{Im}[x0]<0\,\&\&-\frac{0.5\,\text{Im}[y0]}{\text{Im}[x0]}+1.\,\text{Re}[x0]+\frac{1.\,\text{Im}[y0]\,\text{Re}[y0]}{\text{Im}[x0]}\leq 0.5\,\&\&$$
$$\text{Re}[x0]>0.5\,\&\&\,0.25-1.\,\text{Im}[x0]^2+\frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2}-1.\,\text{Im}[y0]^2-1.\,\text{Re}[x0]-\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2}+$$
$$\left.1.\,\text{Re}[x0]^2+\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2}\geq 0\,\&\&\,\text{Im}[y0]-1.\,\text{Re}[x0]\leq -0.5\right)\;||\;\left(\text{Re}[y0]<-0.5\,\&\&\right.$$
$$\text{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\text{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\text{Im}[y0]>0\,\&\&\,\text{Im}[x0]<0\,\&\&-\frac{0.5\,\text{Im}[y0]}{\text{Im}[x0]}+1.\,\text{Re}[x0]+\frac{1.\,\text{Im}[y0]\,\text{Re}[y0]}{\text{Im}[x0]}\leq 0.5\,\&\&$$
$$\text{Re}[x0]<0.5\,\&\&\,0.25-1.\,\text{Im}[x0]^2+\frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2}-1.\,\text{Im}[y0]^2-1.\,\text{Re}[x0]-\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2}+$$
$$\left.1.\,\text{Re}[x0]^2+\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2}\geq 0\,\&\&\,\text{Im}[y0]+1.\,\text{Re}[x0]\leq 0.5\right)\;||\;\left(\text{Re}[y0]<-0.5\,\&\&\right.$$
$$\text{Re}\left[\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\right]\geq$$
$$0.5\,\&\&$$
$$\text{Re}\left[y0+\sqrt{0.25000000000000000000+(-1.00000000000000000000+x0)\,x0+(0.5+y0)^2}\,\right]\geq$$
$$-0.5\,\&\&\,\text{Im}[y0]<0\,\&\&\,\text{Im}[x0]>0\,\&\&\,\frac{0.5\,\text{Im}[y0]}{\text{Im}[x0]}+\text{Re}[x0]+\frac{1.\,\text{Im}[y0]\,\text{Re}[y0]}{\text{Im}[x0]}\geq 0.5\,\&\&$$
$$\text{Re}[x0]>0.5\,\&\&\,0.25-1.\,\text{Im}[x0]^2+\frac{0.25\,\text{Im}[x0]^2}{\text{Im}[y0]^2}-1.\,\text{Im}[y0]^2-1.\,\text{Re}[x0]-\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]}{\text{Im}[y0]^2}+$$
$$\left.1.\,\text{Re}[x0]^2+\frac{1.\,\text{Im}[x0]^2\,\text{Re}[x0]^2}{\text{Im}[y0]^2}\geq 0\,\&\&\,\text{Im}[y0]+1.\,\text{Re}[x0]\geq 0.5\right)\;||\;\left(\text{Re}[y0]<-0.5\,\&\&\right.$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ \mathrm{Im}[x0] > 0\ \&\&\ \frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + \mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\ \&\&$$

$$\mathrm{Re}[x0] < 0.5\ \&\&\ 0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&\ -\mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Big) \mid\mid \Big(\mathrm{Re}[y0] < -0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ \mathrm{Im}[x0] > 0\ \&\&$$

$$-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\ \&\&\ \mathrm{Re}[x0] > 0.5\ \&\&$$

$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&\ \mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \geq 0.5\Big) \mid\mid \Big(\mathrm{Re}[y0] < -0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ \mathrm{Im}[x0] > 0\ \&\&$$

$$-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \leq 0.5\ \&\&\ \mathrm{Re}[x0] < 0.5\ \&\&$$

$$0.25 - 1.\,\mathrm{Im}[x0]^2 + \frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2} - 1.\,\mathrm{Im}[y0]^2 - 1.\,\mathrm{Re}[x0] - \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2} +$$

$$1.\,\mathrm{Re}[x0]^2 + \frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2} \geq 0\ \&\&\ -\mathrm{Im}[y0] + 1.\,\mathrm{Re}[x0] \leq 0.5\Big) \mid\mid \Big(\mathrm{Re}[y0] < -0.5\ \&\&$$

$$\mathrm{Re}\left[\sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (-0.5 + y0)^2} + y0\right] \geq 0.5\ \&\&$$

$$\mathrm{Re}\left[y0 + \sqrt{0.250000000000000000 + (-1.00000000000000000 + x0)\,x0 + (0.5 + y0)^2}\,\right] \geq -0.5\ \&\&\ \mathrm{Im}[y0] < 0\ \&\&\ \mathrm{Im}[x0] < 0\ \&\&$$

$$-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]} + 1.\,\mathrm{Re}[x0] + \frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]} \geq 0.5\ \&\&\ \mathrm{Re}[x0] > 0.5\ \&\&$$

$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$

$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5\Bigg)\;||\;\Bigg(\mathrm{Re}[y0]<-0.5\,\&\&$$

$$\mathrm{Re}\Big[\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\Big]\geq$$

$$0.5\,\&\&$$

$$\mathrm{Re}\Big[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\Big]\geq$$

$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Im}[x0]<0\,\&\&$$

$$-\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+1.\,\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\geq 0.5\,\&\&\,\mathrm{Re}[x0]<0.5\,\&\&$$

$$0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$

$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5\Bigg)\;||\;\Bigg(\mathrm{Re}[y0]<-0.5\,\&\&$$

$$\mathrm{Re}\Big[\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\Big]\geq$$

$$0.5\,\&\&$$

$$\mathrm{Re}\Big[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\Big]\geq$$

$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Im}[x0]<0\,\&\&\,\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\,\&\&$$

$$\mathrm{Re}[x0]>0.5\,\&\&\,0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+$$

$$1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&\,\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\geq 0.5\Bigg)\;||\;\Bigg(\mathrm{Re}[y0]<-0.5\,\&\&$$

$$\mathrm{Re}\Big[\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(-0.5+y0)^2}+y0\Big]\geq$$

$$0.5\,\&\&$$

$$\mathrm{Re}\Big[y0+\sqrt{0.25000000000000000000+(-1.0000000000000000000+x0)\,x0+(0.5+y0)^2}\Big]\geq$$

$$-0.5\,\&\&\,\mathrm{Im}[y0]<0\,\&\&\,\mathrm{Im}[x0]<0\,\&\&\,\frac{0.5\,\mathrm{Im}[y0]}{\mathrm{Im}[x0]}+\mathrm{Re}[x0]+\frac{1.\,\mathrm{Im}[y0]\,\mathrm{Re}[y0]}{\mathrm{Im}[x0]}\leq 0.5\,\&\&$$

$$\mathrm{Re}[x0]<0.5\,\&\&\,0.25-1.\,\mathrm{Im}[x0]^2+\frac{0.25\,\mathrm{Im}[x0]^2}{\mathrm{Im}[y0]^2}-1.\,\mathrm{Im}[y0]^2-1.\,\mathrm{Re}[x0]-$$

$$\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]}{\mathrm{Im}[y0]^2}+1.\,\mathrm{Re}[x0]^2+\frac{1.\,\mathrm{Im}[x0]^2\,\mathrm{Re}[x0]^2}{\mathrm{Im}[y0]^2}\geq 0\,\&\&-\mathrm{Im}[y0]+1.\,\mathrm{Re}[x0]\leq 0.5\Bigg)\Big]$$