Aufgalk 3: Lasung

$$S = S$$
, $\frac{\gamma}{2\gamma + S} = V$, $\frac{x}{2\gamma + S} = M$

(0+)) = (+00)=m

quadratische Ergärzung: $X^2 - \frac{\Lambda}{2} \times + \frac{\Lambda}{4c^2} + \gamma^2 = \frac{\Lambda}{4c^2}$

 $z\left(\frac{2z}{2}\right) = zy + z\left(\frac{z}{2} - x\right)$

-> Schar von Kreisen, Hittelpunkt H= (1/2, 0),

Rodius R= 1/2

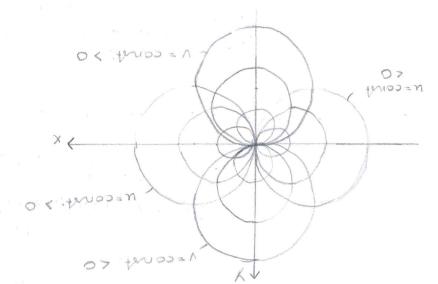
V= cond. = (0 +) (= . thros=V

 $\frac{70+}{\nu} = \frac{30+}{\nu} + \frac{0}{\nu} + \frac{1}{2}h + \frac{1}{2}x$ $0 = \lambda \frac{Q}{V} + z^{\lambda} + z^{\lambda} = 0$

 $z\left(\frac{\sigma}{r}\right) = z \times + z\left(\frac{\sigma}{r} + \gamma\right)$

-> Schar von Kreisen, Mithelpunkt M (O, - 1/2), Radius R = 1/20

Beschriftung) Shizze, gut (Us Ust shalings



$$\frac{z^{\frac{1}{N}}}{z^{\frac{1}{N}}} = z^{\frac{1}{N}} = \frac{z^{\frac{1}{N}}}{z^{\frac{1}{N}}} = z^{\frac{1}{N}} = z^{\frac{1}{N}$$

Fu bestimmen werden x2 druz oben ein ounett. Wurzelziehen ergibt zwei Lösungen, um das richtige Vorzeichen

 $\frac{7}{2} = \frac{7}{2}$ $\frac{7}{2} + \frac{7}{2} = \frac{7}$

$$\Delta d_{x} = \frac{\partial x}{\partial u} + \frac{\partial y}{\partial u} + \frac{\partial y}{\partial u} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{\partial y}{\partial u} + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{\partial y}{\partial u} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{\partial y}{\partial u} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{$$

$$\frac{1}{2} \sqrt{1 + 2 \ln x} = \frac{1}{2} \left(\frac{1}{2} \sqrt{1 + 2 \ln x} \right)^{2} + \frac{1}{2} \left(\frac{1}{2} \sqrt{1 + 2 \ln x} \right)^{2} = \frac{1}{2} \sqrt{1 + 2 \ln x}$$

$$\frac{L^{2} L^{2}}{s} = \frac{(\sqrt{s} L^{2})^{2} + 2LU^{2}}{s} = \frac{1}{L^{2} + \sqrt{s}} = \frac{1}{L^{2} + \sqrt{s}} = \frac{1}{L^{2} L^{2} L^{2}}$$

$$\frac{(\sqrt{s} L^{2} L^{2})^{2}}{(\sqrt{s} L^{2} L^{2})^{2}} = \frac{1}{L^{2}} \frac{(\sqrt{s} L^{2} L^{2})^{2}}{(\sqrt{s} L^{2})^{2}} = \frac{1}{L^{2}} \frac{(\sqrt{s} L^{2})^{2}}{(\sqrt{s} L^{2})^{2}} = \frac$$

d) Orthogonalitat: $\frac{c_{u} \cdot e_{v}}{c_{u} \cdot e_{v}} = \frac{-3uv(v^{2}-u^{2})}{(u^{2}+v^{2})^{2}} = 0$ $\frac{c_{u} \cdot e_{v}}{c_{u}} = \frac{c_{v} \cdot e_{z}}{c_{v}} = \frac{c_{v} \cdot e_{z}}{$

(u,v,z) ist sir orthogonales Koordinatursystem.

Sanotigheit:

$$\frac{1}{59} = \frac{1}{4} \frac{(x^2 + x^2)^2}{(x^2 + x^2)^2} = \frac{1}{4} \frac{\left[(x^2 + x^2)^2 + (x^2 + x^2)^2 \right]}{x(x^2 + x^2)^2} = \frac{1}{4} \frac{1}{5} = \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} = \frac{1}{5} \frac{1}{$$

(u,v, z) ist ein rechtshandiges Koordinalenryhlen.

V

7/2

7/2

 \overline{V}

V

$$z \left(\frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \sum_$$

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