

slope field



Web Apps Examples Random

Assuming "slope field" refers to a computation | Use as referring to a mathematical definition instead

- vector field:
- variable 1:
- lower limit 1:
- upper limit 1:
- variable 2:
- lower limit 2:
- upper limit 2:

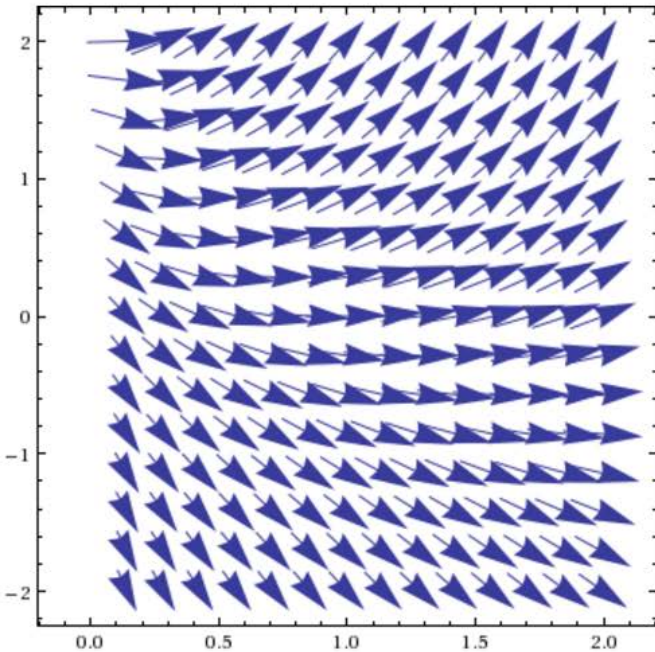
$$\{1, (\ln(x) + y)\}/\text{sqrt}(1 + (\ln(x) + y)^2)$$

Input:

$$\text{VectorPlot}\left[\frac{\{1, \log(x) + y\}}{\sqrt{1 + (\log(x) + y)^2}}, \{x, 0, 2\}, \{y, -2, 2\}\right]$$

log(x) is the natural logarithm

Result:



~~StreamPlot[{{1, (ln(x) + y)}, {x, 0, 2}, {y, -2, 2}}~~



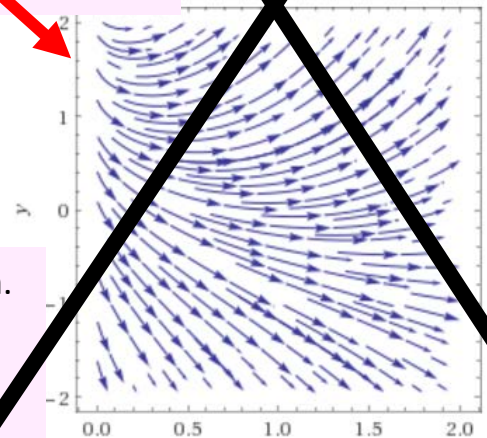
Input interpretation:

~~stream plot~~

~~1 = 0 to 2~~

~~log(x) + y y = -2 to 2~~

Do NOT curve your slope lines



Slope lines are small portions of lines tangent to a solution. Thus slope lines must be straight. They cannot be curved.

Arrows are optional