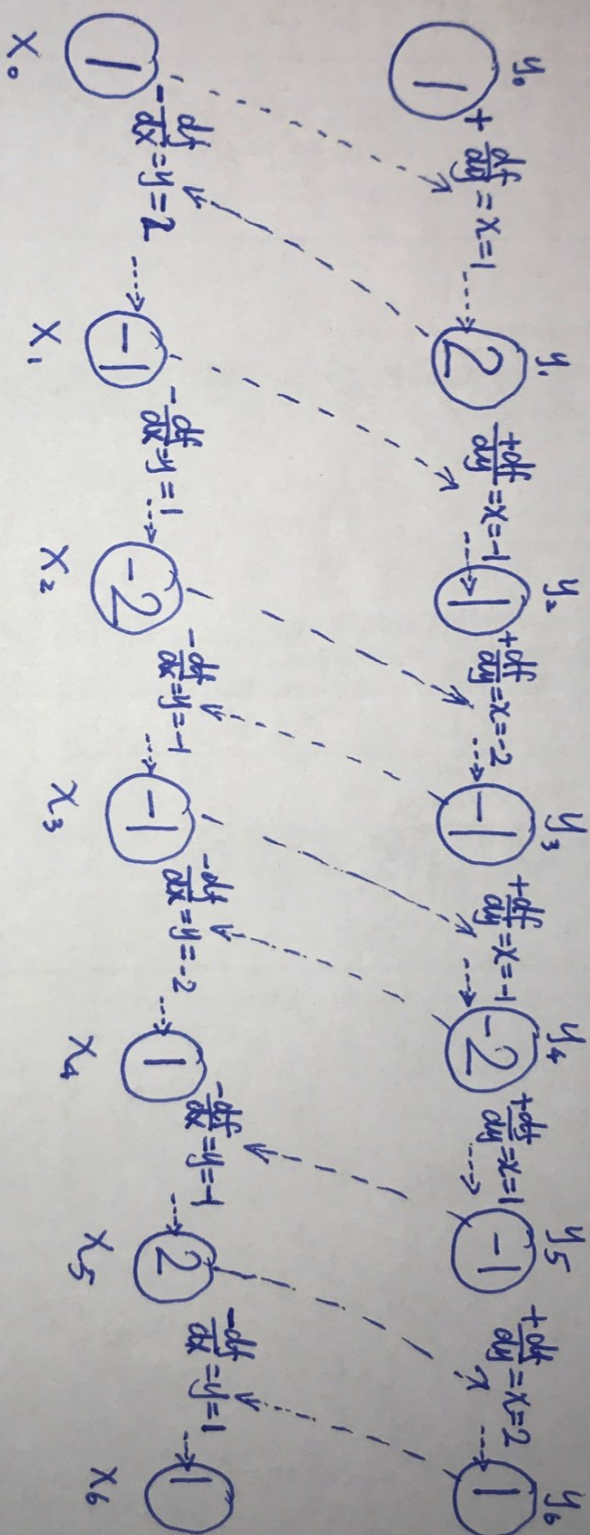$f(x, y) = xy, \quad \min_x \max_y f(x, y)$

$$\frac{\partial f}{\partial x} = y, \quad \frac{\partial f}{\partial y} = x$$

first, update y,
then update x using updated y.

$\max_y$,
gradient ascent y

$\min_x$,
gradient descent x

CS23in Assignment 3 Q5 GANs

Inline Question 1