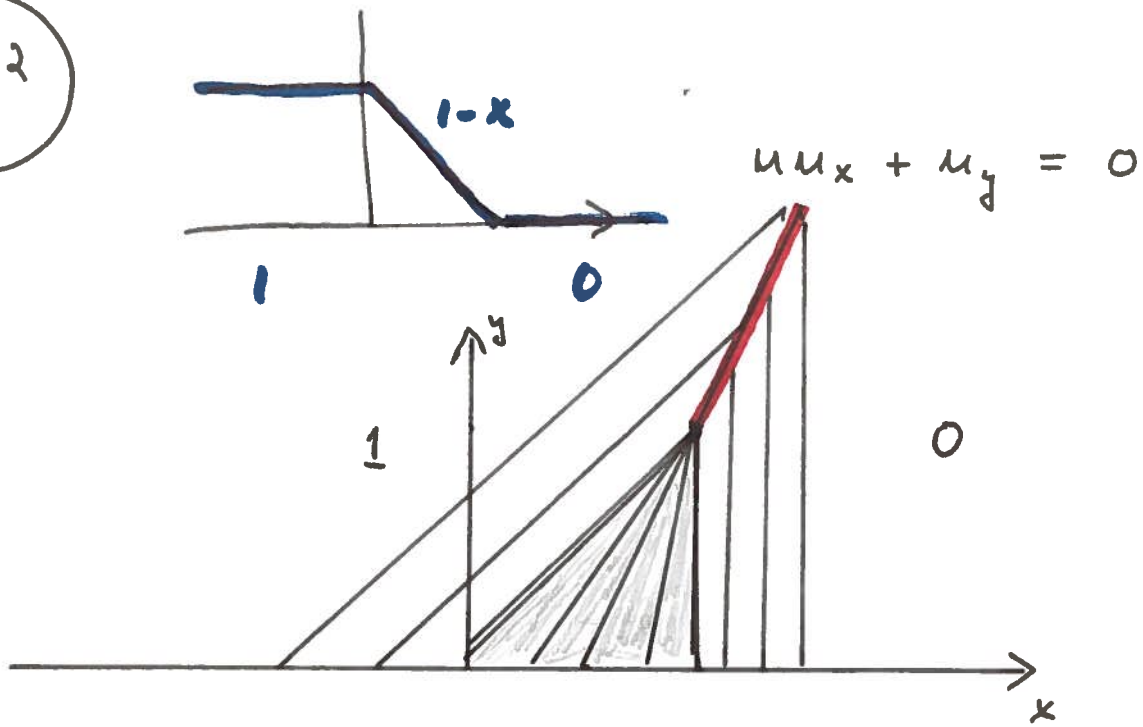


§ 1.2
2



Rankine-Hugoniot

$$\frac{d\xi}{dy} = \frac{\frac{0}{2} - \frac{1}{2}}{0-1} = \frac{1}{2}$$

$$\xi - 1 = \frac{1}{2}(y - 1)$$

Shock

$$y = 2x - 1$$



$$u\left(x, \frac{x-a}{1-a}\right) = 1-a$$

$$u(x, y) = \frac{1-x}{1-y}$$

"The solution takes the constant value C along the line with slope $1/C$."

$$\underline{x \leq 0} \quad u = 1$$

$$\underline{0 \leq x \leq 1} \quad u(x, y) = \begin{cases} 1, & y \geq x \\ \frac{1-x}{1-y}, & y \leq x \end{cases}$$

$$\underline{x \geq 1} \quad u = \begin{cases} 1, & y > 2x - 1 \\ 0, & y < 2x - 1 \end{cases}$$