

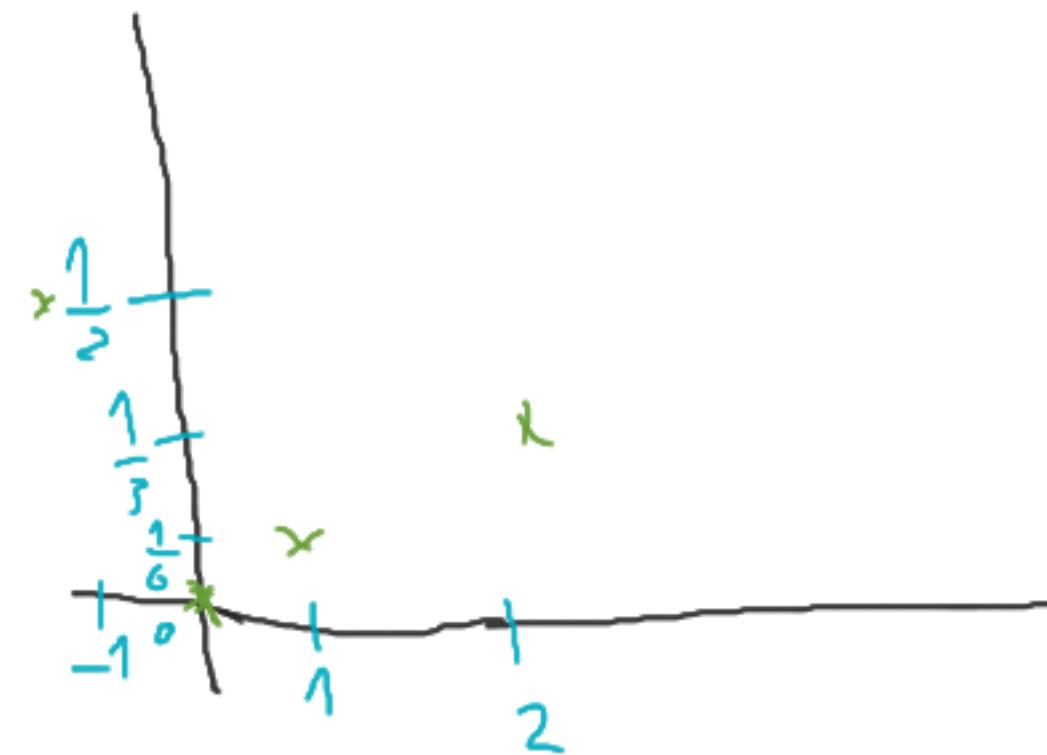
$$Y: \begin{pmatrix} -\frac{1}{2} & \frac{1}{2} & 2 \\ \frac{1}{2} & \frac{1}{3} & \frac{1}{3} \end{pmatrix}$$

PMF: $F(Y = -1) = \frac{1}{2}$

$$F(Y = 1) = \frac{1}{6}$$

$$F(Y = 2) = \frac{1}{3}$$

$$F(Y = y) = 0$$



$$Y: \begin{pmatrix} -\frac{1}{2} & \frac{1}{2} & 2 \\ \frac{1}{2} & \frac{1}{6} & \frac{1}{3} \end{pmatrix}$$

CDF:

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

$$F(-1 \leq Y \leq 1) = \frac{1}{6} + \frac{1}{2}$$

$$F(Y \leq 2) = \frac{1}{3} + \frac{1}{6} + \frac{1}{2}$$

$$F(Y > 2) = \frac{1}{3} + \frac{1}{6} + \frac{1}{2}$$

