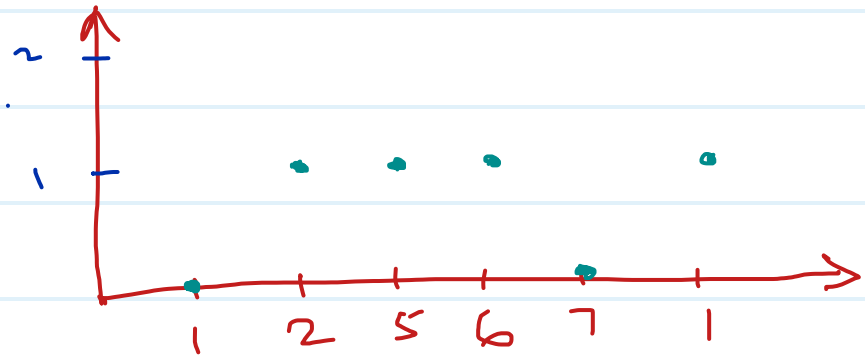
classifying — spam / fraud → 0

not spam / not fraud

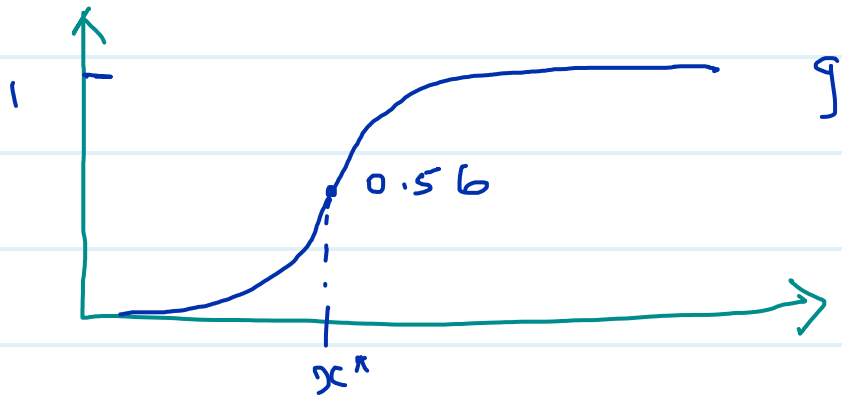
1



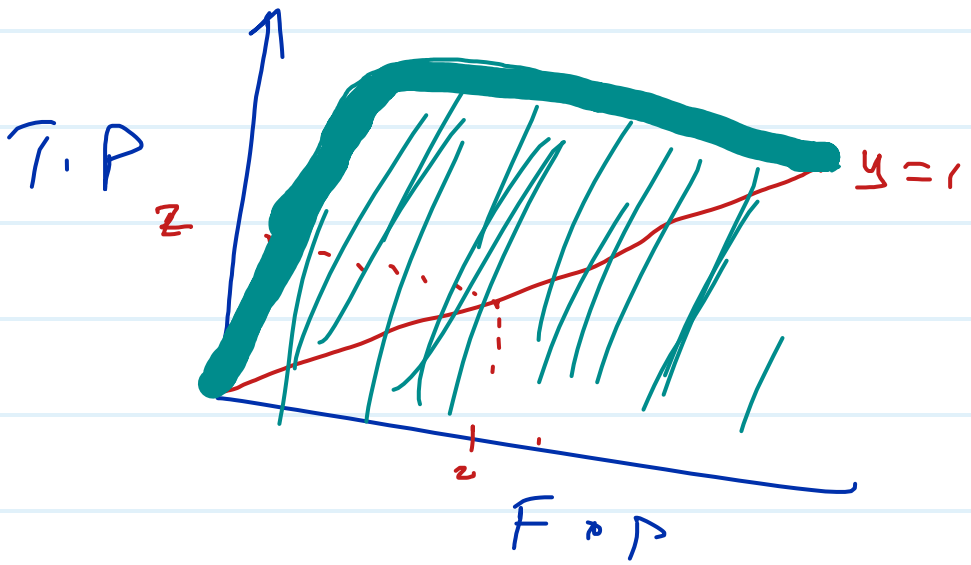
- chances → 1 / 0

probability

$$pdf = \int_{-\infty}^{\infty} f(x)\,dx$$



$$g(x) = \frac{1}{1 + e^{-x}}$$



Thus in binary classification, the count of true negatives is
:math:`C_{0,0}`, false negatives is :math:`C_{1,0}`, true positives is
:math:`C_{1,1}` and false positives is :math:`C_{0,1}`