Задача 42. Пасека Иван

382003_2.

i	$y^{(i)}$	$g(x^{(i)})$
8	1	0,82
1	0	0,75
7	1	0,66
9	1	0,50
4	0	0,23
2	0	0,15
3	0	0,11
6	1	0,10
5	0	0,09

$$FPR = \frac{FP}{FP+TN} = \frac{1}{5}$$

$$FNR = \frac{FN}{FN+TP} = \frac{1}{4}$$

$$TNR = \frac{TN}{FP+TN} = \frac{4}{5}$$

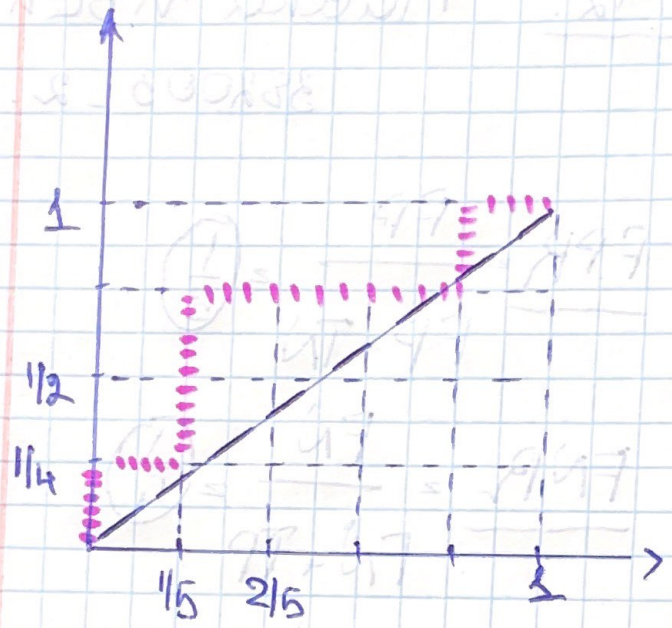
$$TPR = \frac{TP}{TP+FN} = \frac{3}{4}$$

$$*accuracy = \frac{TP+TN}{TP+TN+FP+FN} = \frac{7}{9}$$

$$*error = \frac{FP+FN}{TP+TN+FP+FN} = \frac{2}{9}$$

$$AUC = 0,7$$

$$F1 = \frac{2 \cdot recall \cdot precision}{recall + precision} = 2 \cdot \frac{\frac{3}{4} \cdot \frac{3}{4}}{\frac{6}{4}} = \frac{3}{4}$$


1
1/2
1/4
1/5
2/5
1