

Задача 42.

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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

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

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

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

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

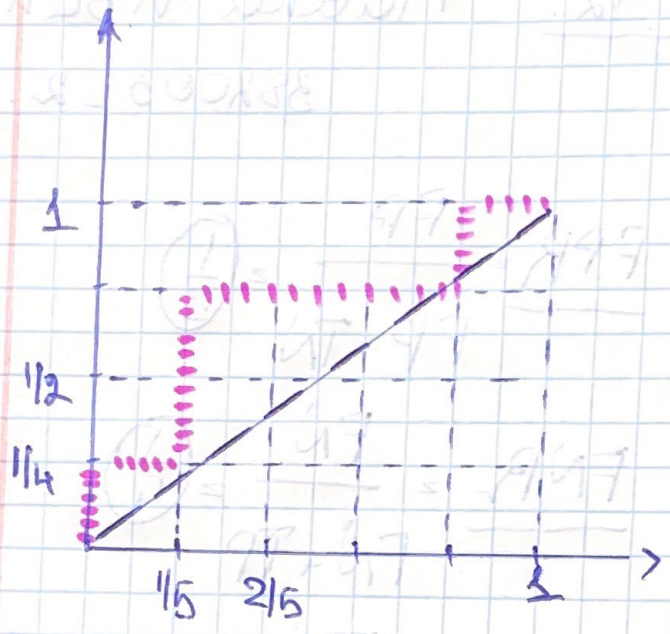
$$\text{accuracy} = \frac{TP + TN}{TP + TN + FP + FN} = \frac{7}{9}$$

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

$$\underline{AUC = 0,7}$$

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

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$$f(x) = \frac{1}{5}x = \frac{1}{5}x$$

(x,y)	$f(x,y)$	$g(x,y)$
$(0,0)$	0	0
$(\frac{1}{5},0)$	0	0
$(\frac{2}{5},0)$	0	0
$(\frac{3}{5},0)$	0	0
$(\frac{4}{5},0)$	0	0
$(\frac{1}{5},\frac{1}{2})$	0	0
$(\frac{2}{5},\frac{1}{2})$	0	0
$(\frac{3}{5},\frac{1}{2})$	0	0
$(\frac{4}{5},\frac{1}{2})$	0	0
$(\frac{1}{5},1)$	0	0
$(\frac{2}{5},1)$	0	0
$(\frac{3}{5},1)$	0	0
$(\frac{4}{5},1)$	0	0