

3) $PPV_1 = PPV_2$ $\left\{ \begin{array}{l} TNR_1 = TNR_2 \\ NPV_1 = NPV_2 \end{array} \right. \Rightarrow$

$$TPR_1 = TPR_2 = \frac{TP_1}{P} = \frac{TP_2}{P} \Rightarrow TP_1 = TP_2 \Rightarrow FN_1 = FN_2$$

$\nwarrow \nearrow$
 aqua
 бодаркус

$$PPV_1 = PPV_2 \Rightarrow \frac{TP}{FP + TP} = \frac{TP}{FP + TP} \Rightarrow FP_1 = FP_2 \Rightarrow FPR_1 = FPR_2$$

т.к. $TNR = 1 - FPR \Rightarrow [FPR_1 = FPR_2] \Rightarrow TNR_1 = TNR_2$
 $TN_1 = TN_2$

т.к. $FN_1 = FN_2$ и $TN_1 = TN_2 \Rightarrow NPV_1 = NPV_2$

Ответ: Верно

2) $TNR_1 = TNR_2$ $\left\{ \begin{array}{l} PPV_1 = PPV_2 \\ TPR_1 = TPR_2 \end{array} \right. \Rightarrow$

Ответ: Верно.

5) ROC-кривая - график зависимости TPR от FPR

$$\left. \begin{array}{l} TPR_1 = TPR_2 \\ FPR_1 = FPR_2 \end{array} \right\} \Leftrightarrow \left\{ \begin{array}{l} PPV_1 = PPV_2 \\ TPR_1 = TPR_2 \Rightarrow TP_1 = TP_2 \end{array} \right.$$

$$FPR_1 = FPR_2 \Rightarrow FP_1 = FP_2$$

ответ верно