

6.4

H - у 1 сумки
¬H - у 2 сумки

E - МАХ20

$$P(H) = 0,4 = \frac{2}{5}$$

$$P(E|H) = \frac{4}{8} = \frac{1}{2}$$

$$P(\neg H) = 0,6 = \frac{3}{5}$$

$$P(E|\neg H) = \frac{4}{6} = \frac{2}{3}$$

$$P(E) = \frac{2}{5} \cdot \frac{1}{2} + \frac{3}{5} \cdot \frac{2}{3}$$

" 1/5 2/5

$$P(H|E) = \frac{P(H) \cdot P(E|H)}{P(E)} = \frac{\frac{1}{5}}{\frac{1}{5} + \frac{2}{5}} = \frac{1}{3} < \frac{2}{5} \quad \text{" } P(H)$$

Верно

6.2

$$P\left(\begin{bmatrix} x_1 \\ x_2 \end{bmatrix}\right) = 0,4 \mathcal{N}\left(\begin{bmatrix} 1,0 \\ 2 \end{bmatrix}, \begin{bmatrix} 1,0 \\ 0,1 \end{bmatrix}\right) + 0,6 \mathcal{N}\left(\begin{bmatrix} 0 \\ 0 \end{bmatrix}, \begin{bmatrix} 8,4 & 2,0 \\ 2,0 & 1,7 \end{bmatrix}\right)$$

p