

Пример 8

① $\bar{e} = (1; 0; 1; 0)$ NHЗ?
 $\bar{b} = (1; 1; 0; 0)$
 $\bar{c} = (1; 0; 0; 1)$

$$\lambda_1 (1; 0; 1; 0) + \lambda_2 (1; 1; 0; 0) + \lambda_3 (1; 0; 0; 1) = 0$$

$$\lambda_1 + \lambda_2 + \lambda_3 = 0$$

$$\lambda_2 = 0$$

$$\lambda_1 = 0$$

$$\lambda_3 = 0$$

Да, NHЗ // Ответ

②

$$\bar{e}_1 = (1; 2) \quad \|\bar{b}_1\|^2 = 1 + 4 = 5$$

$$\bar{e}_2 = (2; 1)$$

$$\bar{b}_1 = \bar{e}_1 = (1; 2)$$

$$\bar{b}_2 = \bar{e}_2 - \frac{(\bar{e}_2, \bar{b}_1)}{\|\bar{b}_1\|^2} \cdot \bar{b}_1 = \frac{1}{5} (1; 2) = (0, 2; 0, 4)$$