

4681

$$\alpha) 1 - 4(\lambda - \lambda^2) \geq 0 \Leftrightarrow (2\lambda - 1)^2 \geq 0 \quad 10 \times 0,54$$

$$\beta) \lambda = \frac{1}{2}$$

$$\gamma) |x_1 - x_2|^2 = 1 \Leftrightarrow$$

$$\underbrace{x_1^2 + x_2^2}_{S^2} - 2x_1x_2 = 1 \Leftrightarrow$$

$$S^2 - 2P - 2P = 1 \Leftrightarrow S^2 - 4P - 1 = 0$$

$$1 - 4(\lambda - \lambda^2) - 1 = 0 \Leftrightarrow \lambda - \lambda^2 = 0 \Leftrightarrow$$

$$\lambda = 0 \quad \text{u} \quad \lambda = 1.$$