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$$\begin{aligned} \alpha) \text{ Τριπέρι: } \Delta \geq 0 &\Leftrightarrow 2^2 - 4 \cdot 1 \cdot (2-2) \geq 0 \Leftrightarrow \\ &\Leftrightarrow 4 - 4\lambda + 8 \geq 0 \Leftrightarrow 12 - 4\lambda \geq 0 \Leftrightarrow -4\lambda \geq -12 \Leftrightarrow \\ &\Leftrightarrow \lambda \leq 3 \end{aligned}$$

β) Για $\lambda \leq 3$, έχουμε:

$$x_1 \cdot x_2 = P = \frac{\gamma}{\alpha} = \frac{1-2}{1} = 1-2$$

$$x_1 + x_2 = S = -\frac{\beta}{\alpha} = -\frac{2}{1} = -2$$

Οωότες:

$$\begin{aligned} x_1 \cdot x_2 - 2 \cdot (x_1 + x_2) &= 1 \Leftrightarrow P - 2 \cdot S = 1 \Leftrightarrow \\ &\Leftrightarrow 1-2 - 2 \cdot (-2) = 1 \Leftrightarrow 1-2 + 4 = 1 \Leftrightarrow \\ &\Leftrightarrow 1+2 = 1 \Leftrightarrow \lambda = -1 \end{aligned}$$