4 - 2055 | α) Πρέπει $\lambda^2 - \lambda \neq 0 \Leftrightarrow$

$\lambda(\lambda-1) \neq 0 \Leftrightarrow \lambda \neq 0$ και $\lambda \neq 1$.

β) $\lambda(\lambda-1)\cdot x^2 - (\lambda^2-1)\cdot(\lambda+1)\cdot x + \lambda - 1 = 0$ $(\lambda+1)$

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

γ) $\Delta = [-(\lambda+1)]^2 - 4\lambda = \lambda^2 + 2\lambda + 1 - 4\lambda$

$= (\lambda-1)^2 > 0$, $\lambda \neq 1$, $\lambda \neq 0$

δ) $x_{1,2} = \dfrac{\lambda+1 \pm (\lambda-1)}{2\lambda} \Leftrightarrow$

$x = 1$ ή $x = \dfrac{1}{\lambda}$