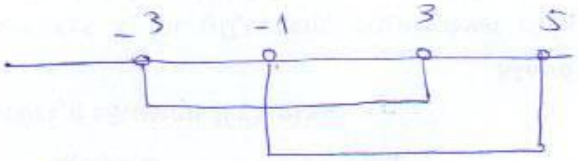
2238

α) $\Delta = 4\lambda^2 - 4(\lambda^2 - 1) = 4 > 0$

β) $x_{1,2} = \dfrac{2\lambda \pm 2}{2} \begin{cases} \lambda + 1 \\ \lambda - 1 \end{cases}$

γ) $-2 < \lambda + 1 < 4 \Leftrightarrow -3 < \lambda < 3$

$-2 < \lambda - 1 < 4 \Leftrightarrow -1 < \lambda < 5$



Άρα $\lambda \in (-1, 3)$