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α) Πρέπει: $(-2)^2 - 2\kappa + \lambda = 0 \Leftrightarrow \lambda - 2\kappa = -4$
$1^2 + \kappa + \lambda = 0 \Leftrightarrow \lambda + \kappa = -1$ $\Big\} \overset{\ominus}{\Longrightarrow}$

$3\kappa = 3 \Leftrightarrow \kappa = 1$ και $\lambda = -2$.

β) i) $g(x) = \dfrac{(x-1)(x+1)\cdot(x-2)(x+2)}{(x-1)\cdot(x+2)} = (x+1)(x-2)$

$x \neq -2, 1$.

ii) $g(\alpha+3) > g(\alpha) \Leftrightarrow (\alpha+4)(\alpha+1) > (\alpha+1)(\alpha$

$\Leftrightarrow (\alpha+1)\cdot(\alpha+4-\alpha+2) > 0 \Leftrightarrow$

$6(\alpha+1) > 0 \Leftrightarrow \alpha > 1$.

Άρα όταν $-1 < \alpha < 2$ έχουμε $g(\alpha+3) > g(\alpha$