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$$U_{\text{left}}(b) = (0 \times \gamma^0) + (10 \times \gamma) = 10\gamma$$

$$U_{\text{right}}(b) = (0 \times \gamma^0) + (0 \times \gamma^1) + (0 \times \gamma^2) + (1 \times \gamma^3) = \gamma^3$$

$$10\gamma = \gamma^3$$

$$\gamma = \sqrt{10}$$

$\sqrt{10} > 1$ so $0 \leq \gamma \leq 1$ not satisfied

No solution