



$$\begin{aligned}
 p_2 &: \int_{\alpha}^{\beta} g(y) dy = 1750 \\
 p_1 &: \int_{\alpha}^{\beta} g(y) dy = 1500 \\
 p_4 &: \int_{\alpha}^{\beta} g(y) dy = 1375 \\
 p_3 &: \int_{\alpha}^{\beta} g(y) dy = 1075
 \end{aligned}$$

Relaxation

