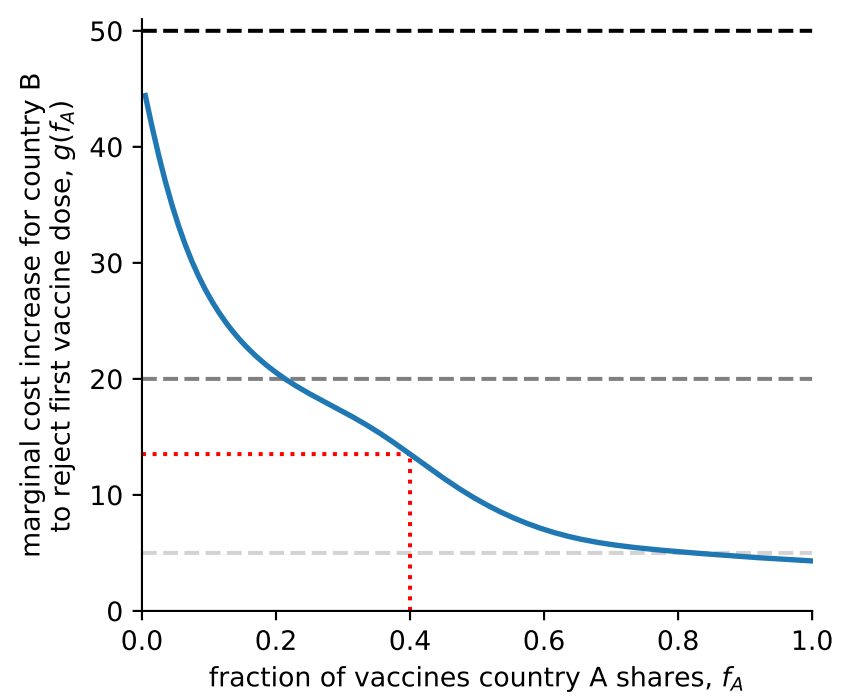

$c'(f_B) = 50$ (derivative of high vaccine-distribution cost function)

$c'(f_B) = 20$ (derivative of medium vaccine-distribution cost function)

$c'(f_B) = 5$ (derivative of low vaccine-distribution cost function)

f_A^* (optimal f_A for country A when $f_B = 1$) and $g(f_A^*)$