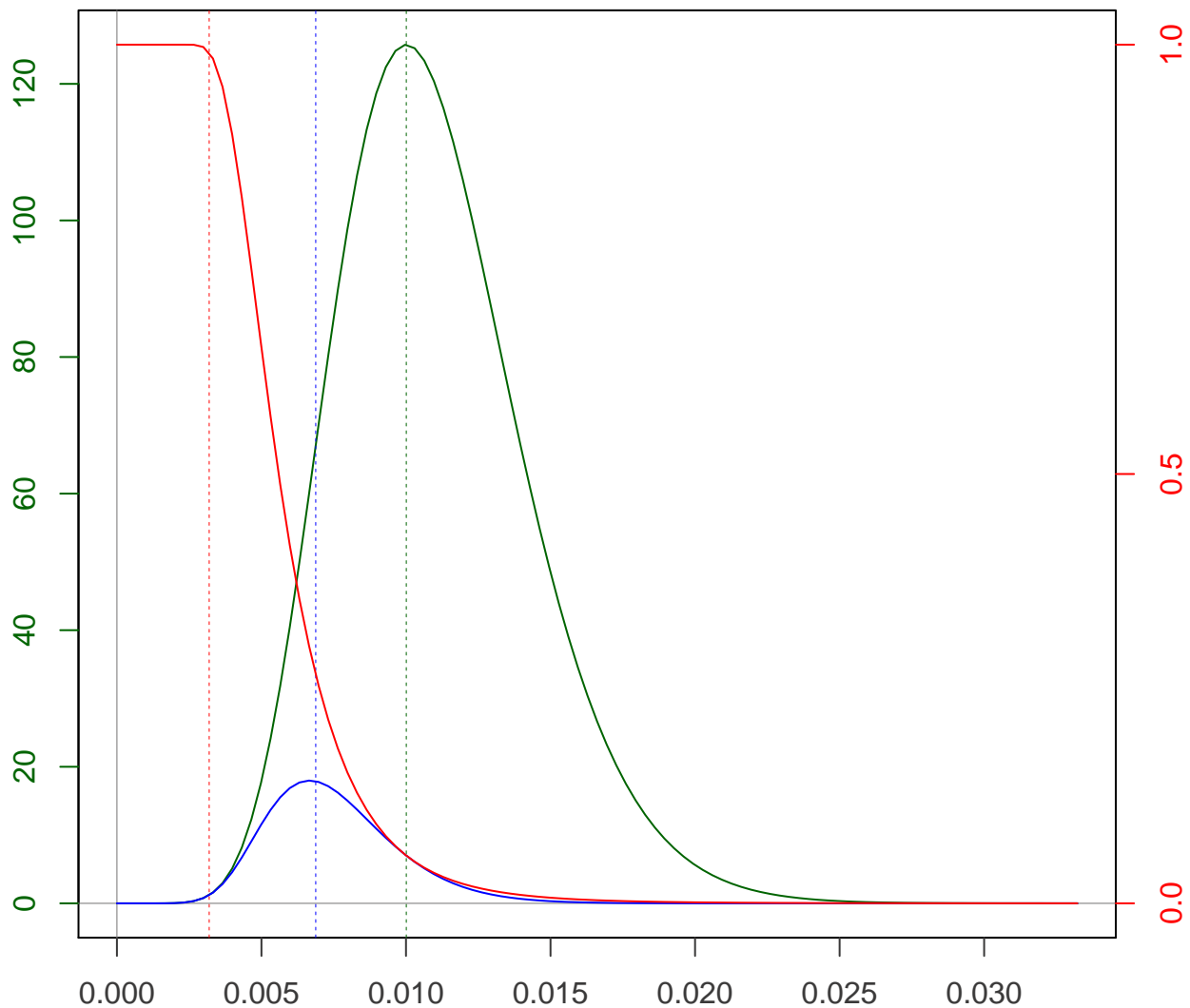


BxG integrand (blue) = Beta density (green) x Gamma survival (red)

K = 10 L = 1000

Approx. integrand location = 0.0069



Area under the blue integrand is $p = 0.094$

Area under the green Beta density is 1