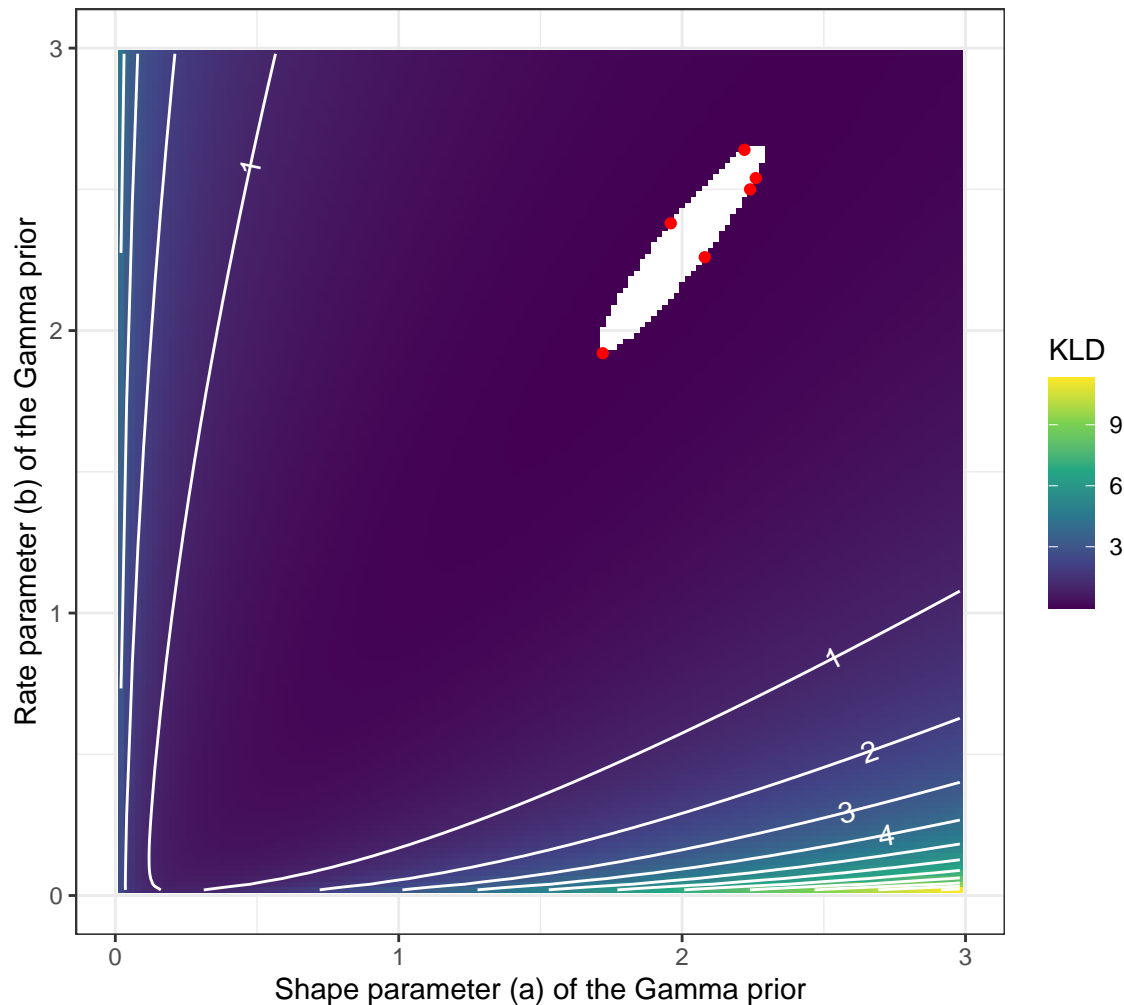


Assuming an informative prior on the number of clusters (K)



Solution: $a = 1.96$, $b = 2.38$, $KLD = 0$