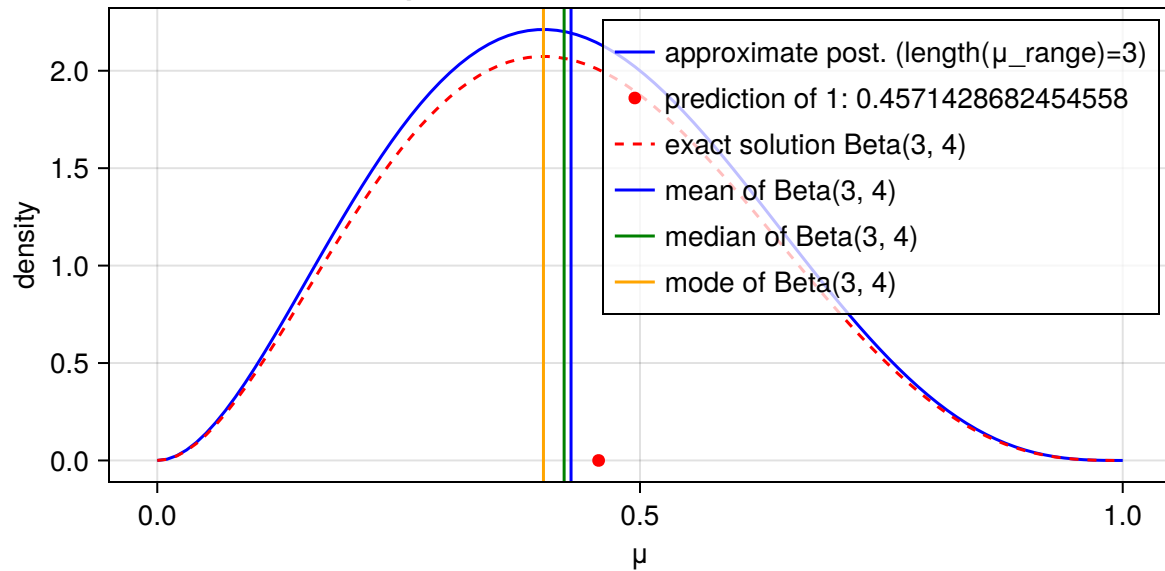
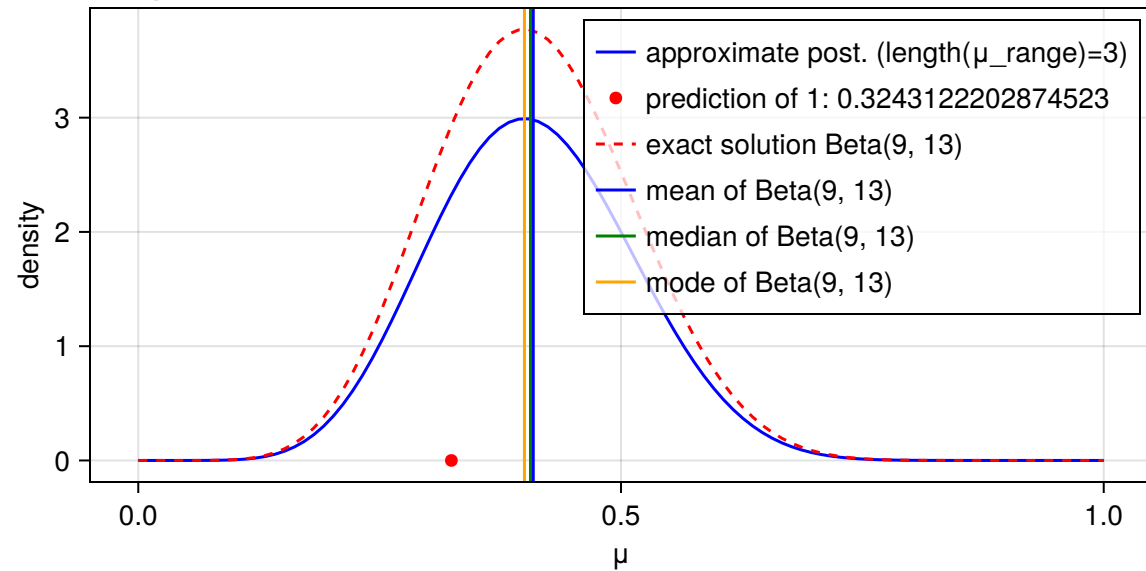


posteiors for  $X_{\text{obs1}} = [0, 0, 0, 1, 1]$



prediction of 1: 0.4571428682454558

posteiors for  $X_{\text{obs2}} = [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1]$



prediction of 2: 0.3243122202874523