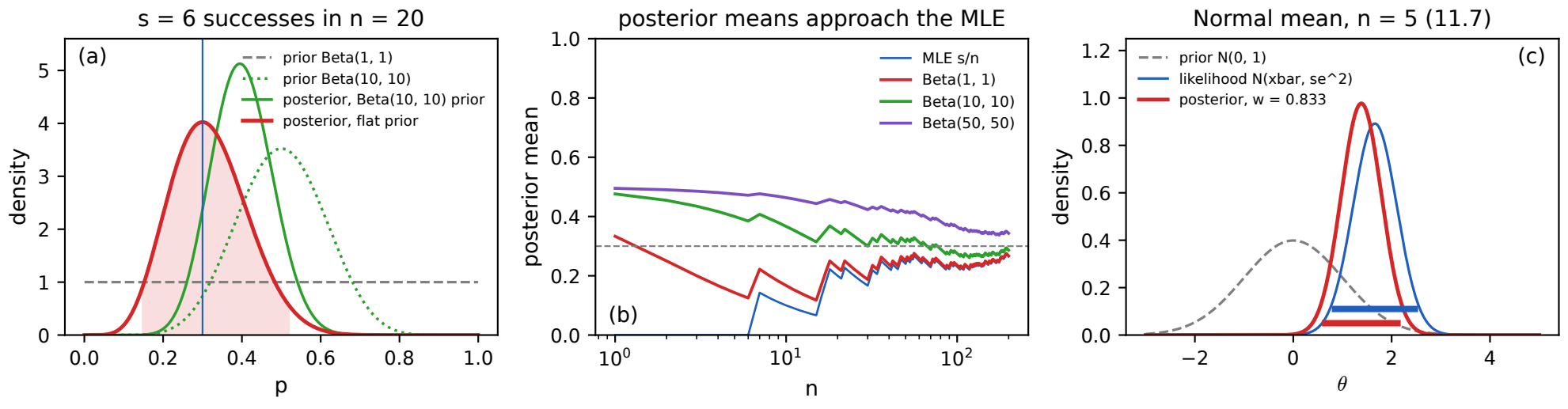

s = 6 successes in n = 20
(a)
prior Beta(1, 1)
prior Beta(10, 10)
posterior, Beta(10, 10) prior
posterior, flat prior
density
p
posterior means approach the MLE
MLE s/n
Beta(1, 1)
Beta(10, 10)
Beta(50, 50)
posterior mean
(b)
n
Normal mean, n = 5 (11.7)
prior N(0, 1)
likelihood N(xbar, se^2)
posterior, w = 0.833
(c)
density
θ