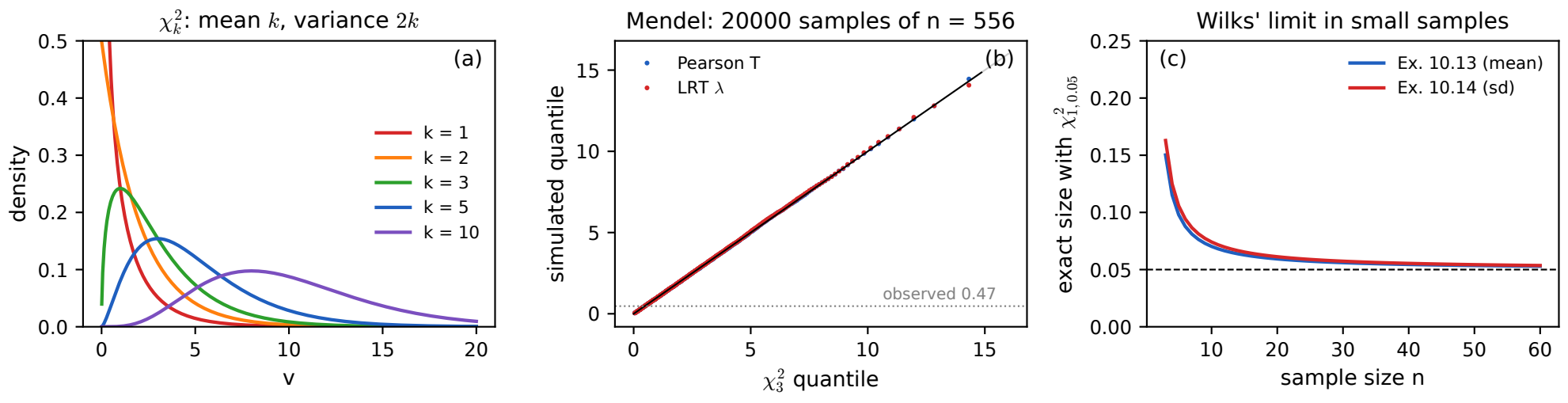

χ^2_k: mean k, variance $2k$
(a)
density
v
k = 1
k = 2
k = 3
k = 5
k = 10
Mendel: 20000 samples of n = 556
(b)
Pearson T
LRT λ
simulated quantile
χ^2_3 quantile
observed 0.47
Wilks' limit in small samples
(c)
Ex. 10.13 (mean)
Ex. 10.14 (sd)
exact size with $\chi^2_{1,0.05}$
sample size n