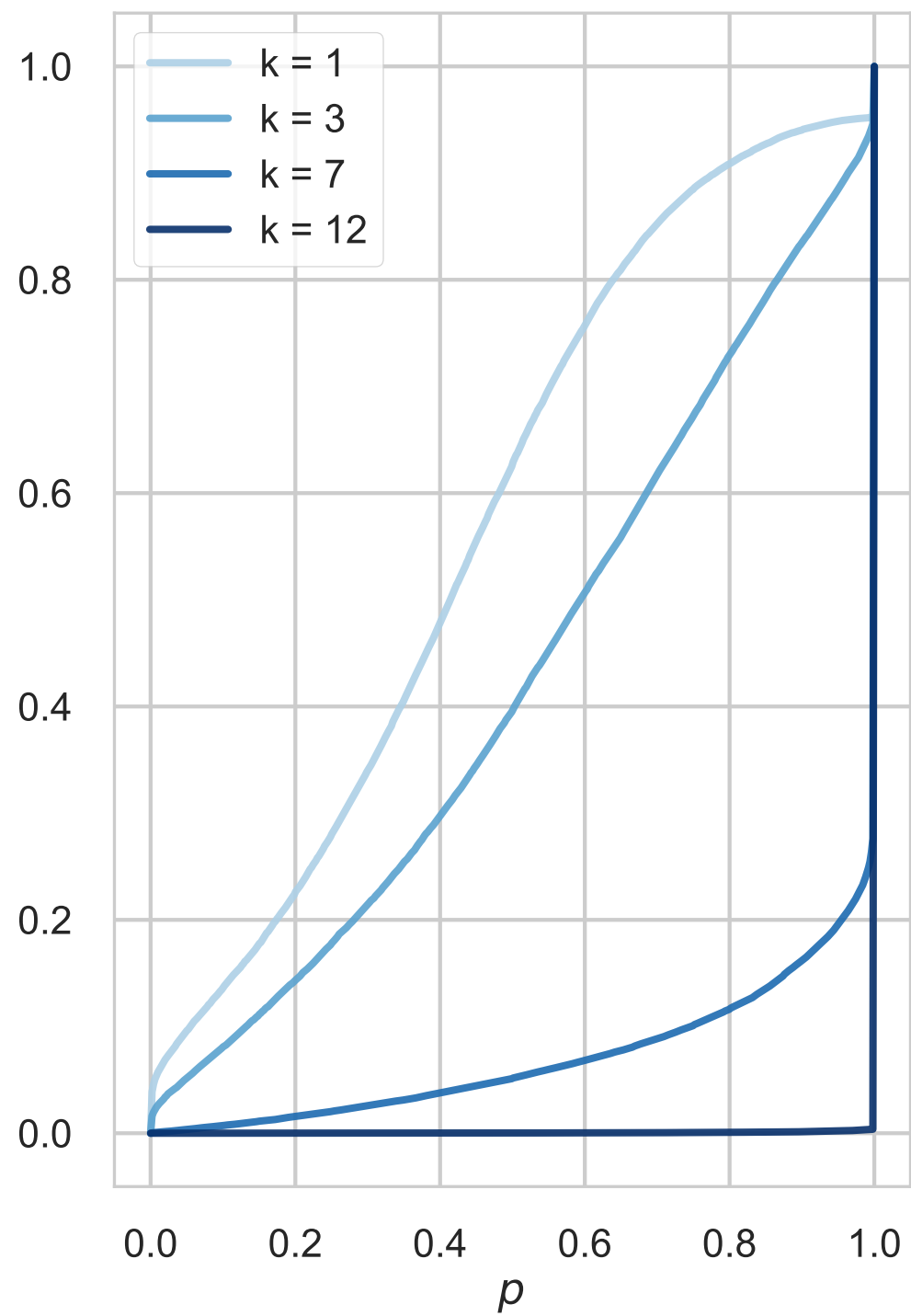p-values Empirical CDF for various history length