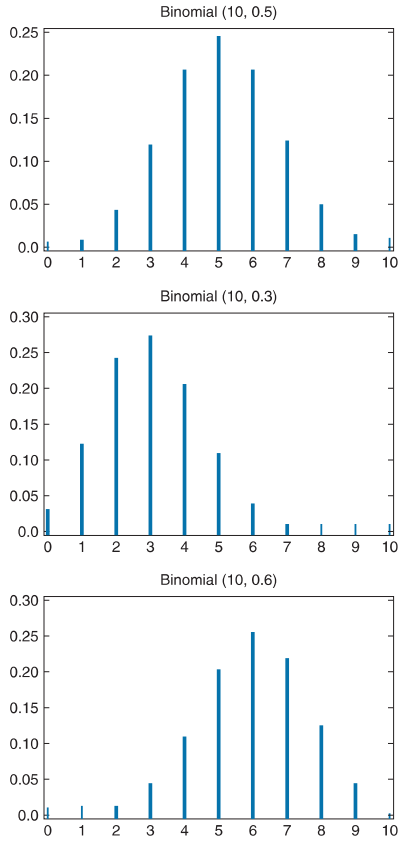

FIGURE 5.1 Binomial probability mass functions.

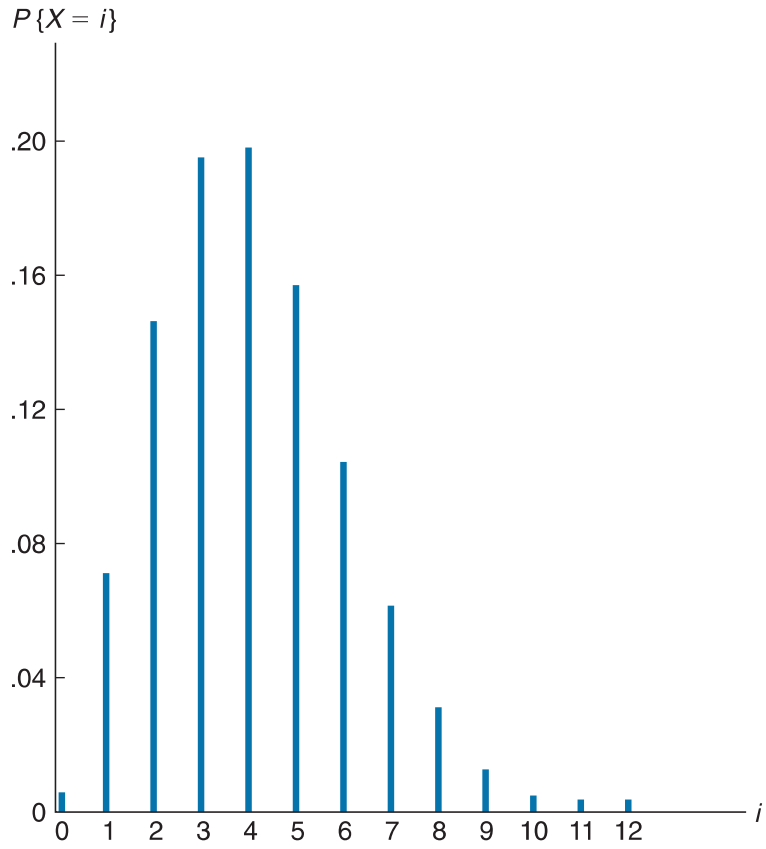

FIGURE 5.2 The Poisson probability mass function with $\lambda = 4$.

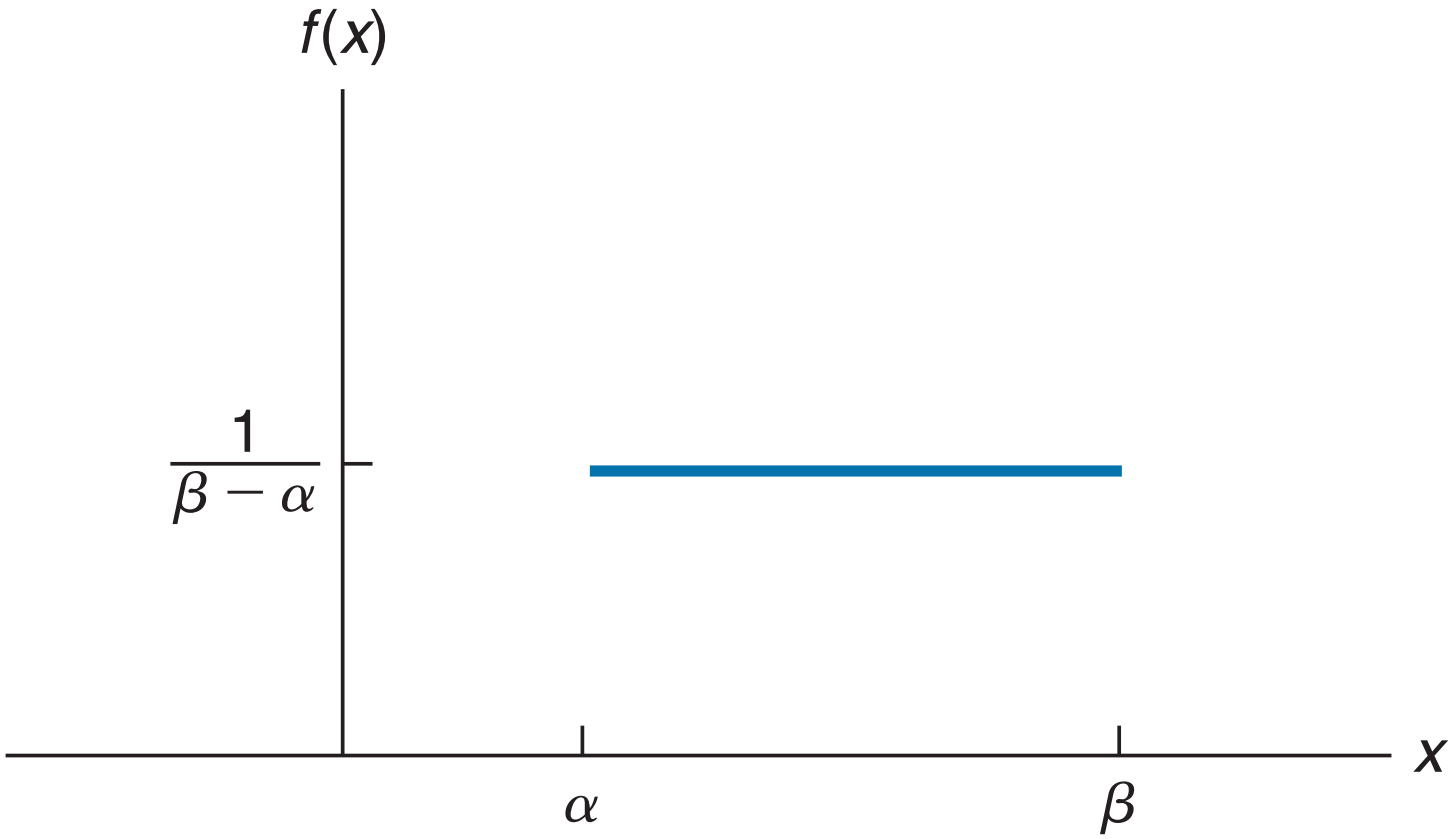

FIGURE 5.3 Graph of $f(x)$ for a uniform $[\alpha, \beta]$.

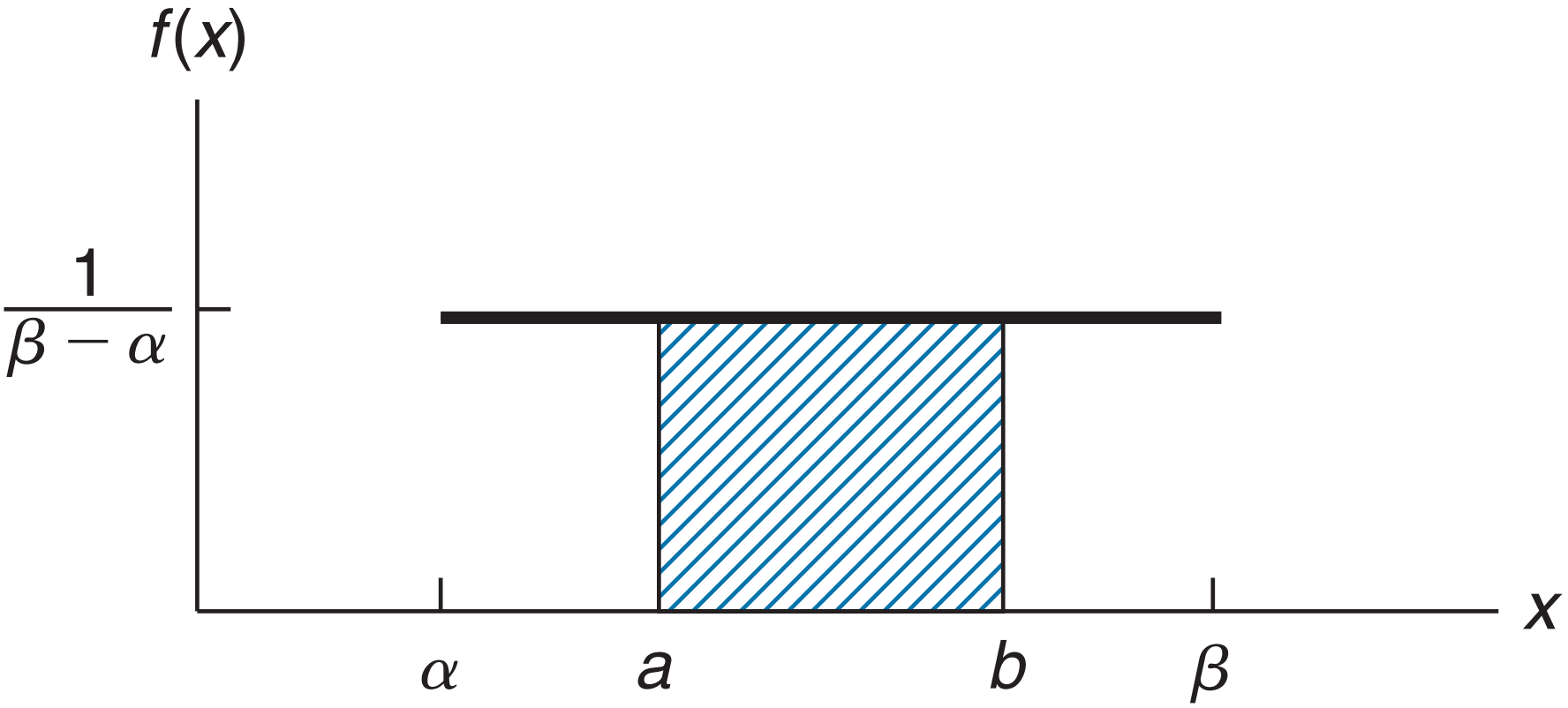

FIGURE 5.4 Probabilities of a uniform random variable.

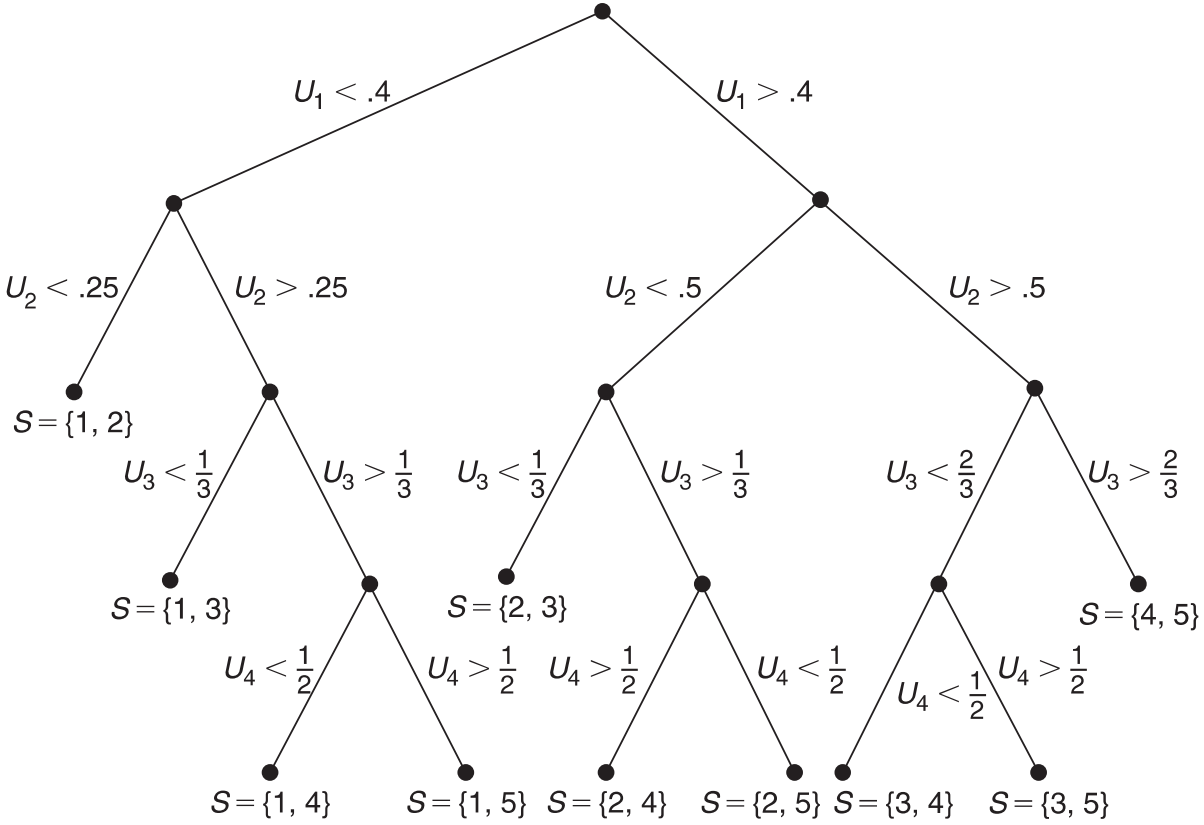

FIGURE 5.5 Tree diagram.

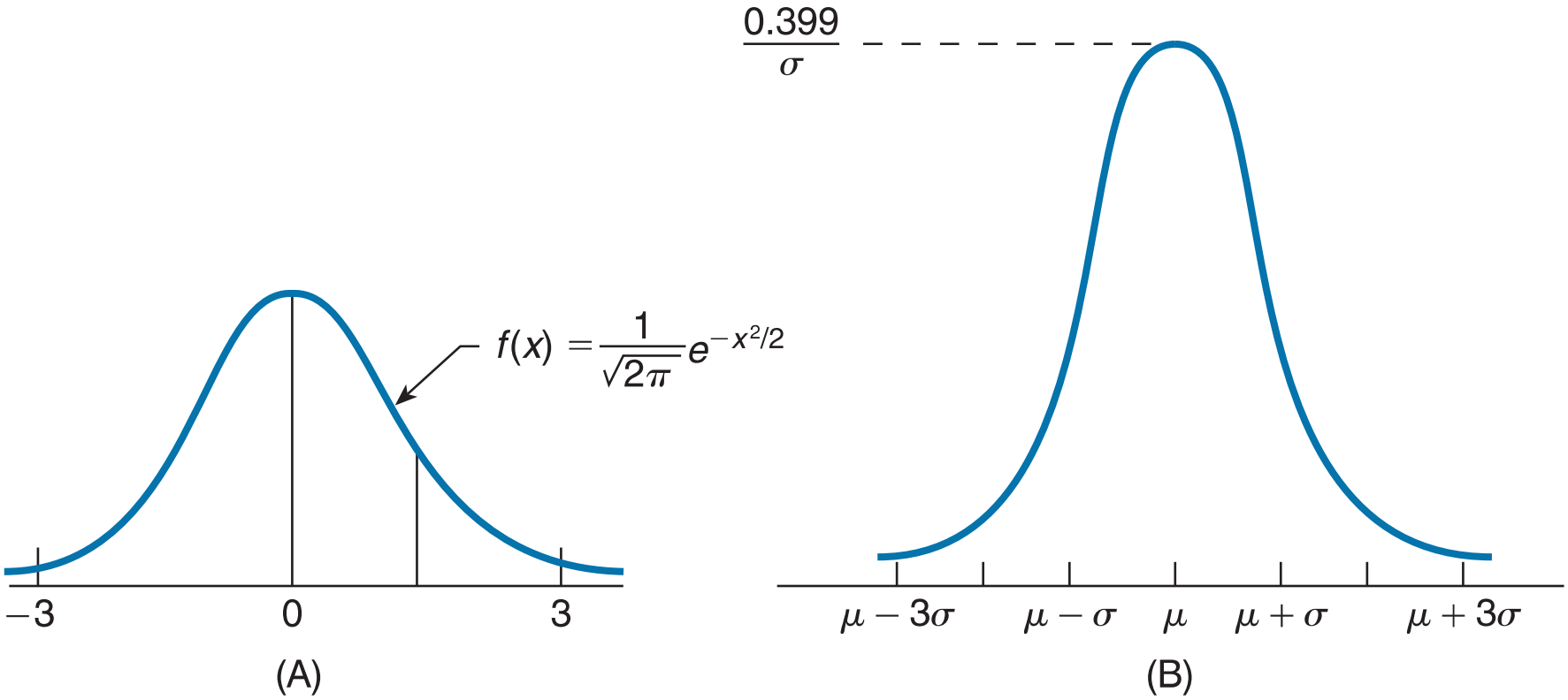

FIGURE 5.6 The normal density function (A) with $\mu = 0$, $\sigma = 1$ and (B) with arbitrary μ and σ^2.

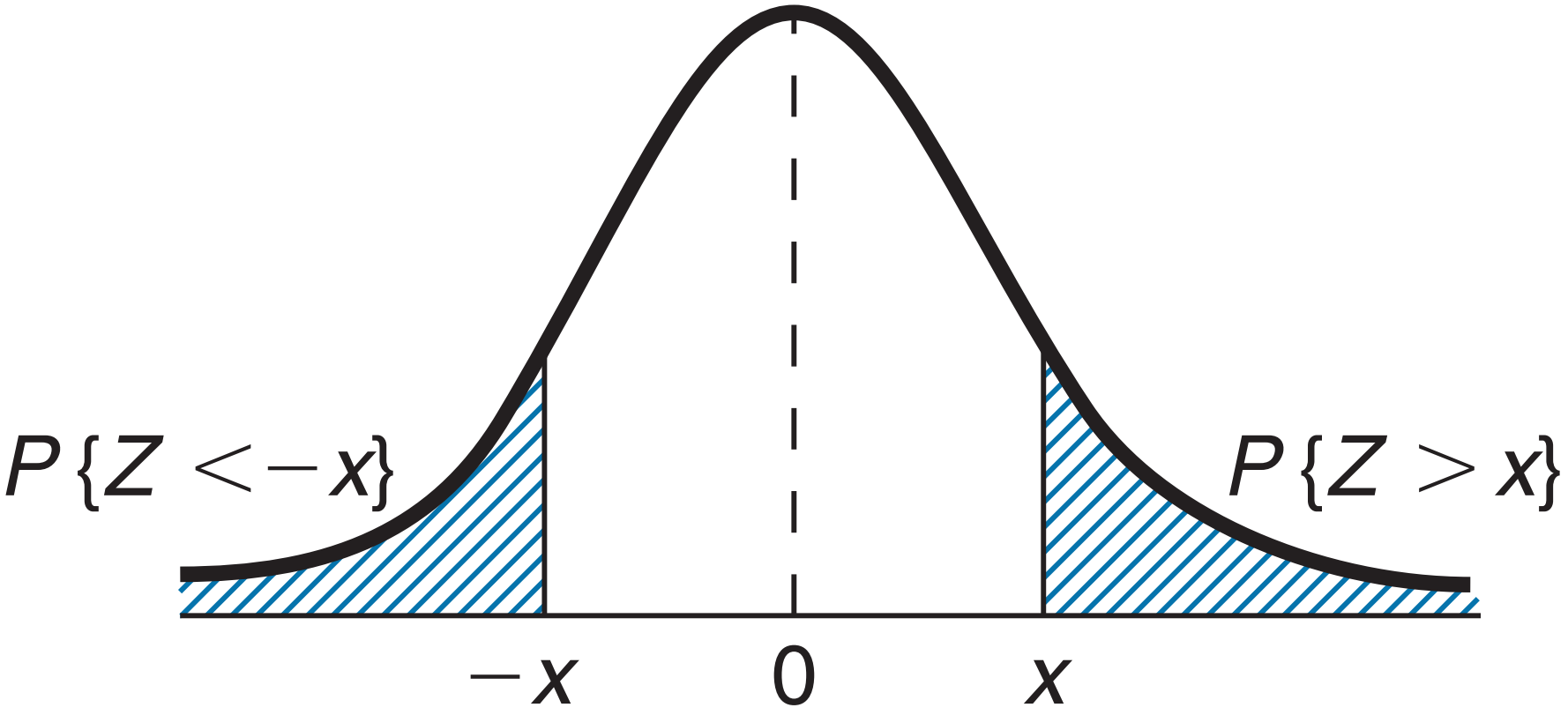

FIGURE 5.7 Standard normal probabilities.

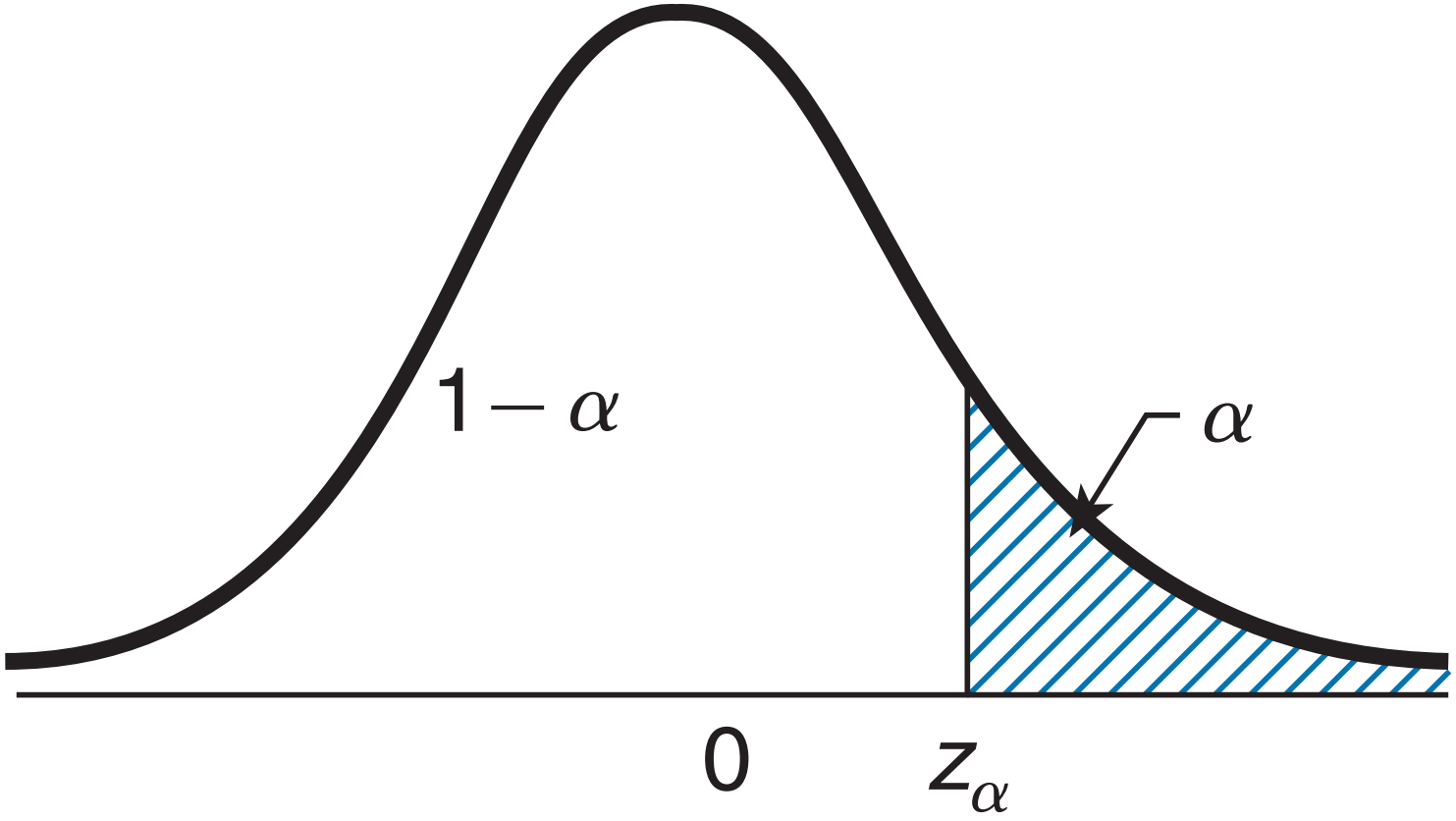

FIGURE 5.8 $P\{Z > z_\alpha\} = \alpha$.

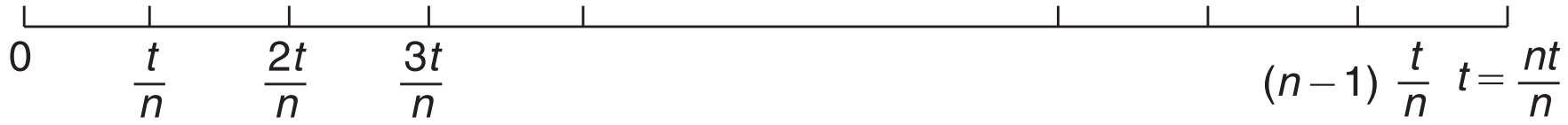

FIGURE 5.9

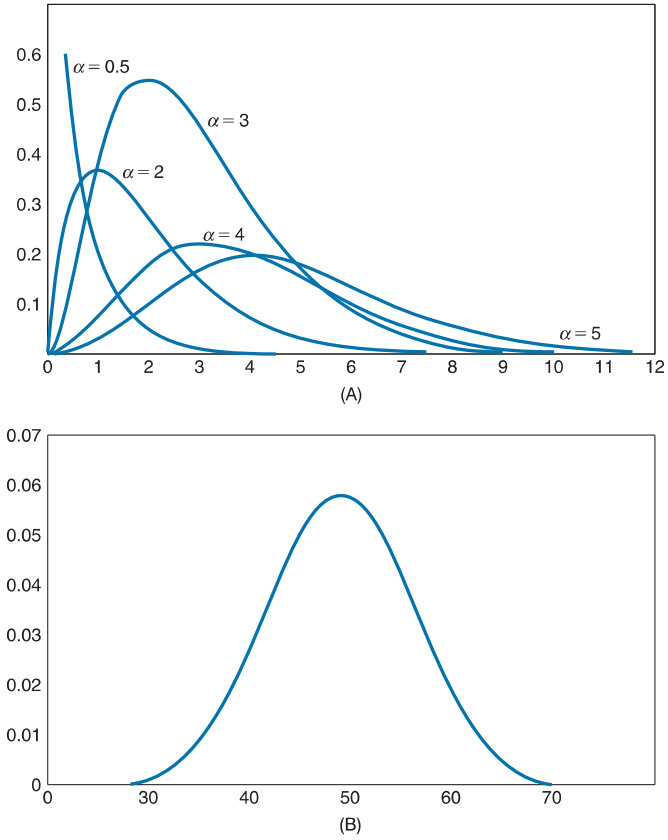

FIGURE 5.10 Graphs of the gamma (α, *1*) density for (A) $\alpha = .5, 2, 3, 4, 5$ and (B) $\alpha = 50$.

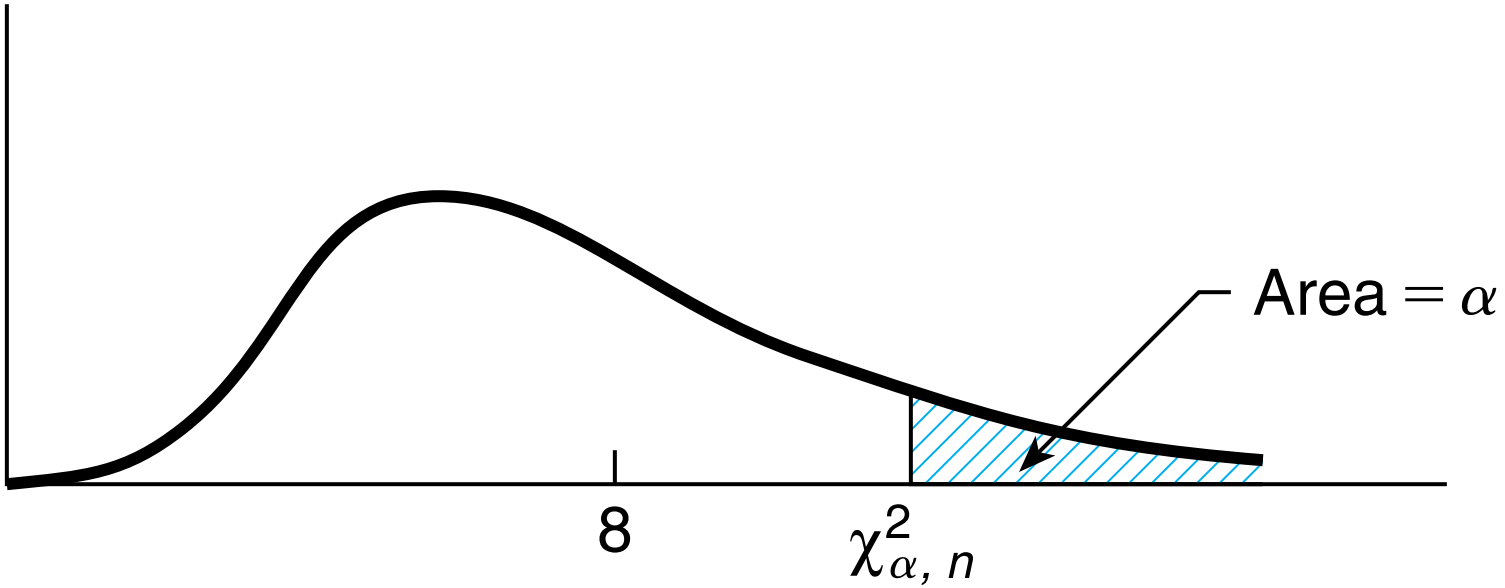

FIGURE 5.11 The chi-square density function with 8 degrees of freedom.

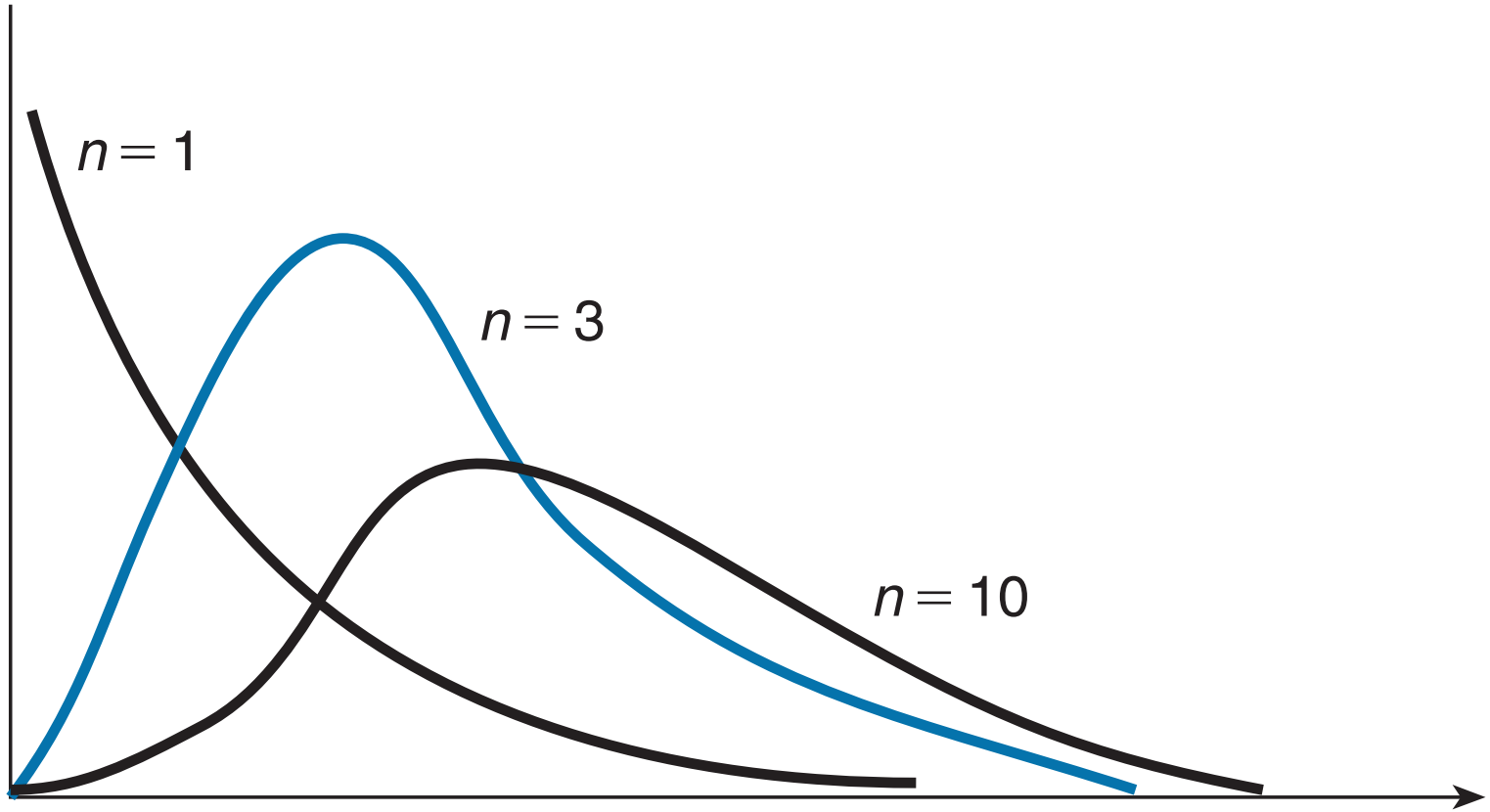

FIGURE 5.12 The chi-square density function with n degrees of freedom.

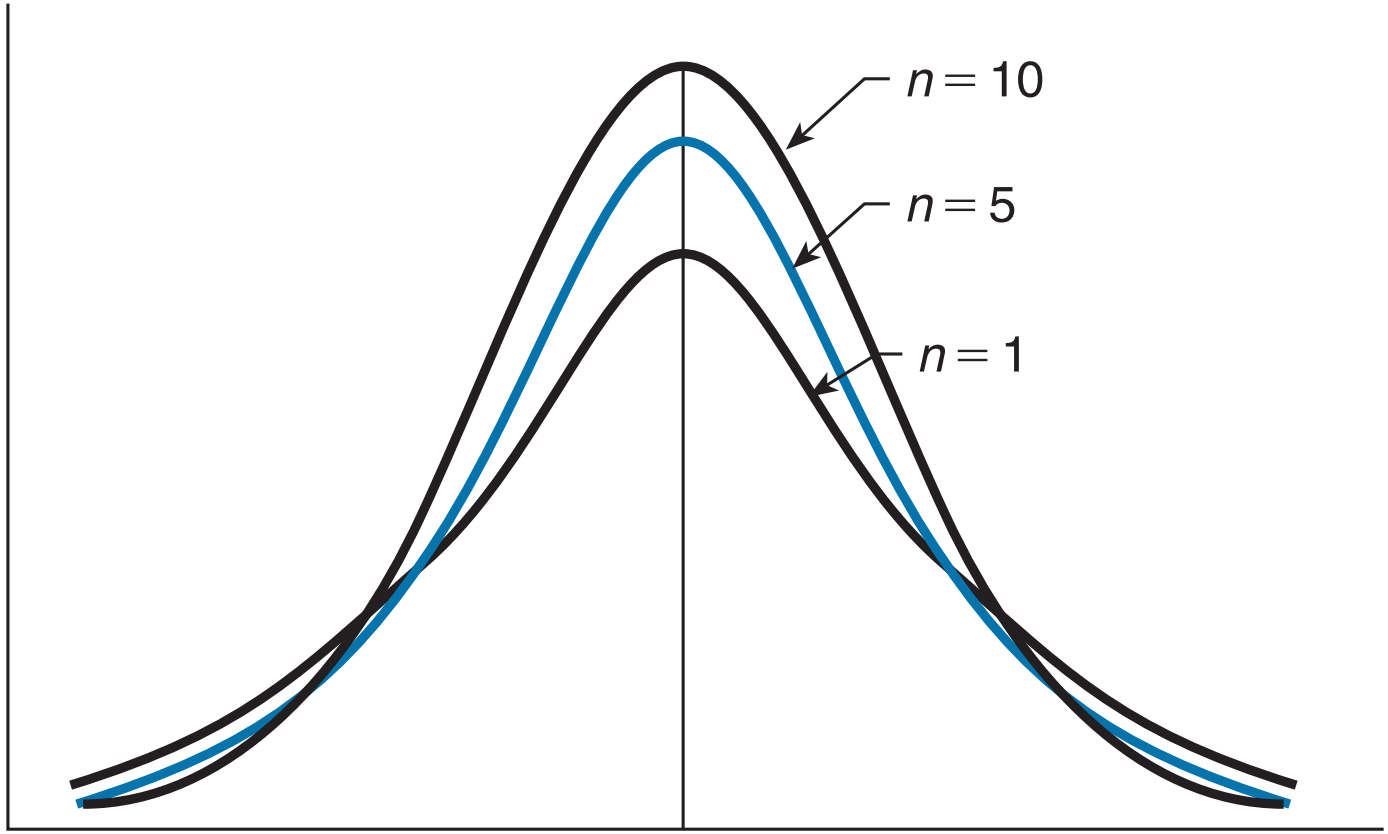

FIGURE 5.13 Density function of T_n.

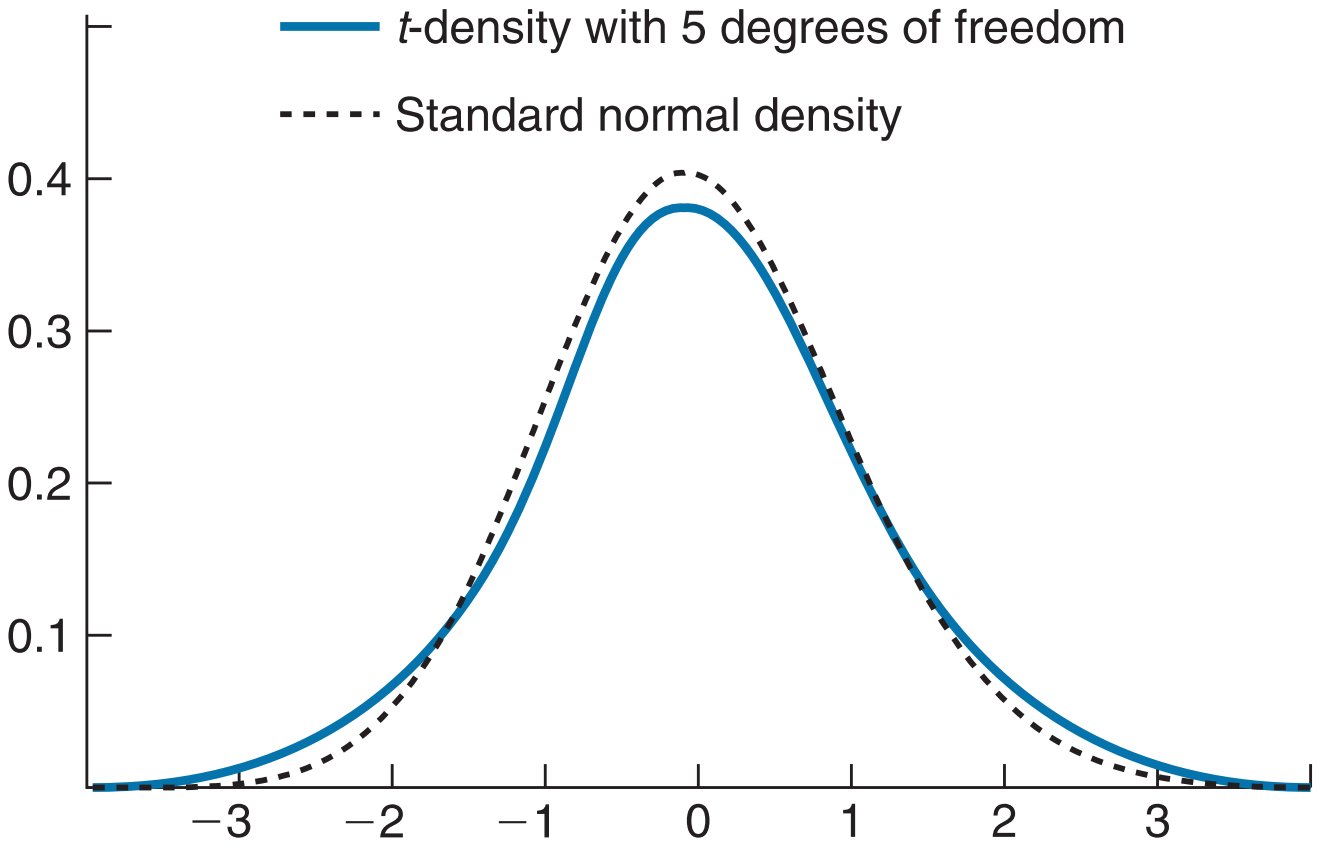

FIGURE 5.14 Comparing standard normal density with the density of T_5.

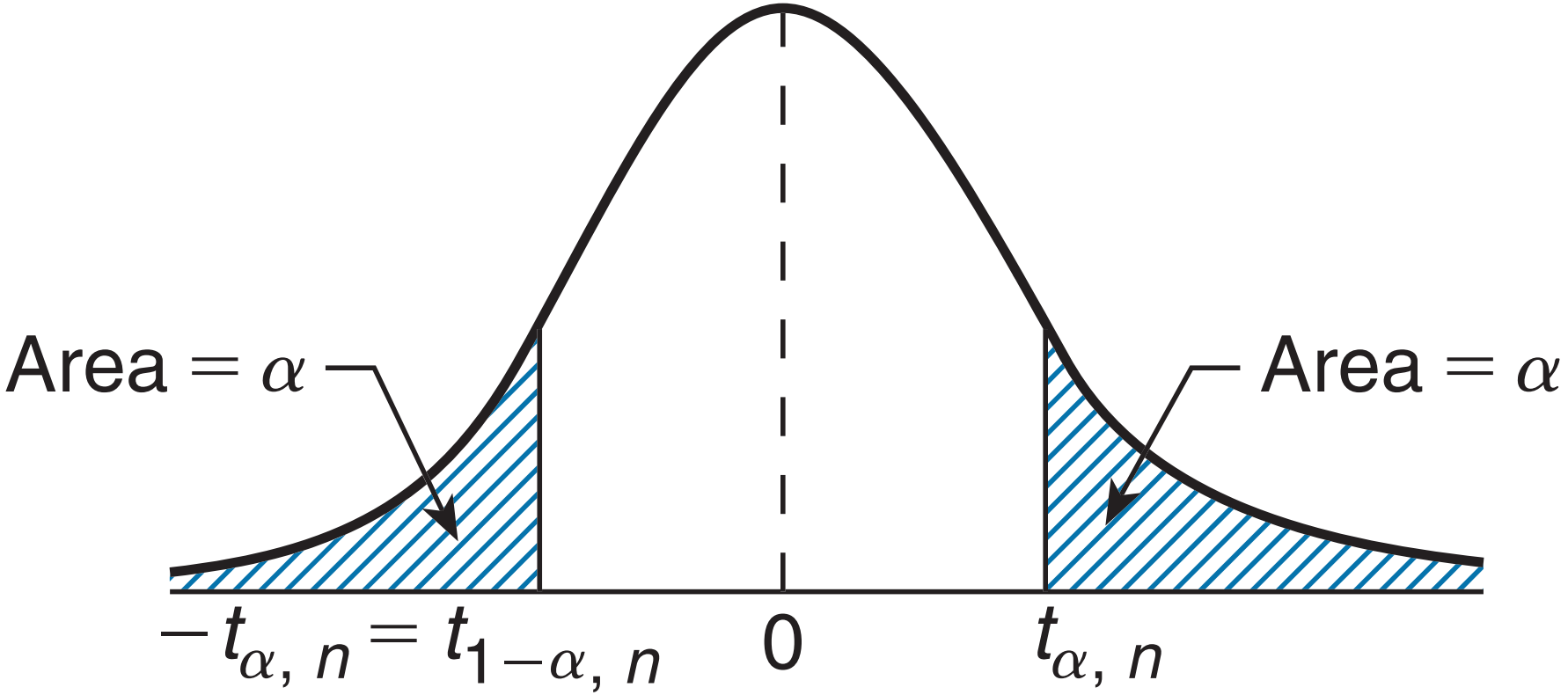

FIGURE 5.15 $t_{1-\alpha,n} = -t_{\alpha,n}$.

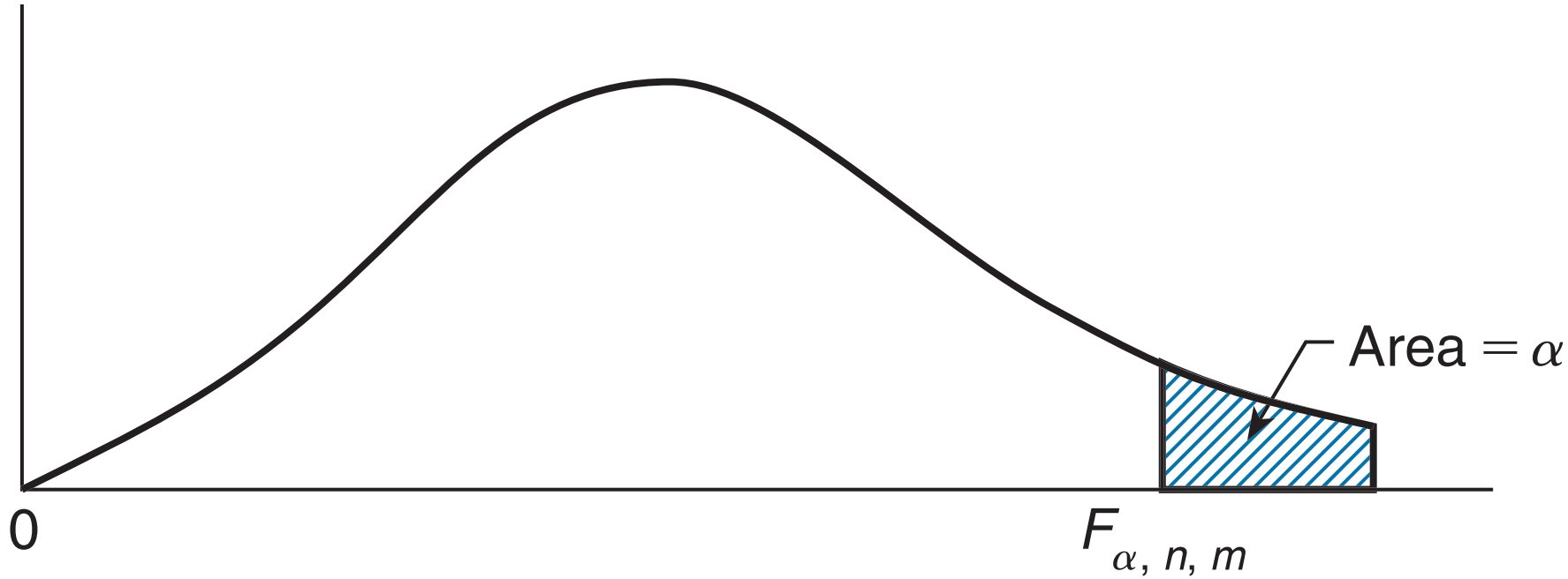

FIGURE 5.16 Density function of $F_{n,m}$.