56.

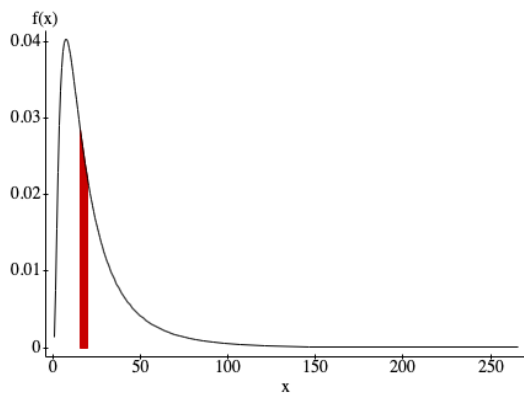a. X = A certain stock's price, X ~LN(2.8, 0.9^2)

b. Mean = exp{2.8 + ½(0.9^2)} = 24.6555

c. SD= $\sqrt{e^{2(2.8) + 0.9^2}(e^{0.9^2} - 1)}$ = 27.5426

d. P(X < 12) = 0.36313043
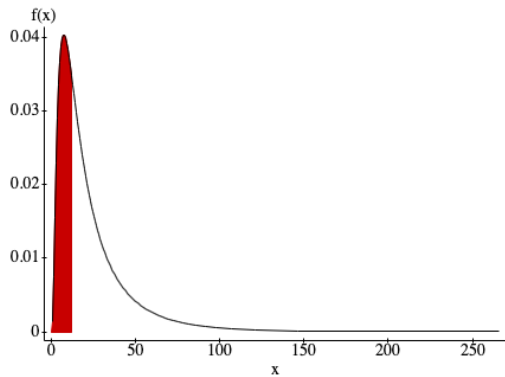
Lognormal Distribution
Location:2.8 Scale:0.9
P(X≤12) = 0.36313043

e. P(15<X<20) = 0.12677069

Lognormal Distribution
Location:2.8 Scale:0.9
P(15≤X≤20) = 0.12677069