KFUPM

Electrical Engineering Department

EE-315 -121

Quiz#2

Instructor: Dr. Saad Al-Abeedi

**Student Name: \_\_\_\_\_ ID# \_\_\_\_\_\_\_\_\_\_\_\_ Serial**# \_\_\_\_\_

I. For a Gaussian random variable, X, with $a\_{X}=1$ and $σ\_{X}=2$, Find

(a) **P(X<-1)**

(b) **P(X>1)**

II. Consider a Gaussian random variable, X, with unknown parameters $a\_{X} $and$ σ\_{X}$ . It is known that $F\_{X}\left(1\right)=0.25$ and $F\_{X}\left(2\right)=0.75$. Find **P(X>3)**.