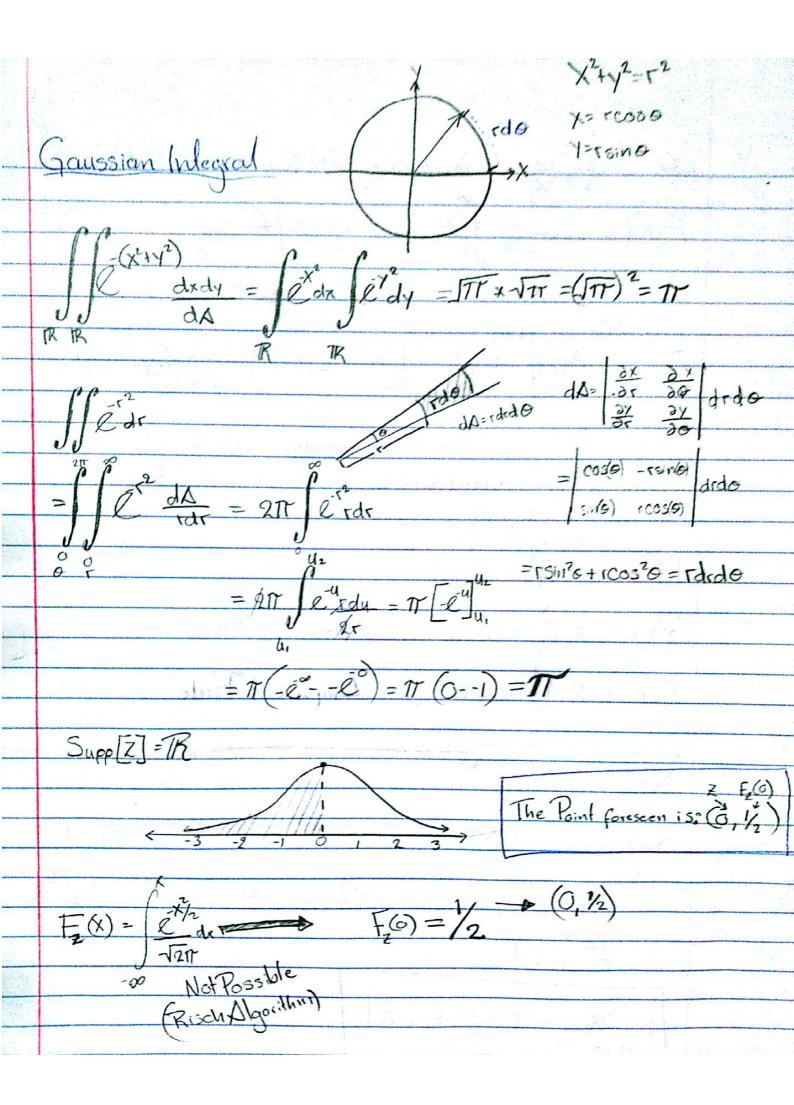


$$E[X] = \int X \int (x) dx = \int \frac{1}{12} dx = \int \frac{1}{12} \left[\frac{x^2}{2} \right]_0^2 = \frac{b^2 - a^2}{2(b - a)} = \frac{b^2 - a^2}{2(b - a)}$$

$$E[X] = b + a$$

$$E[X] = a$$

$$E[X] =$$



$$Id \quad u = \frac{\chi^{2}}{21} \quad \exists u = \chi \neq dx = \underline{du}$$

$$E[X] = \frac{1}{2\pi} \int \frac{dx}{2\pi} dx = \frac{1}{2\pi} \int \frac{d^{2}x}{2\pi} dx = \frac{1}{2\pi} \left(-\frac{e^{u}}{2u}\right)^{u_{2}}$$

$$R$$

$$u_{1}$$

$$\frac{1}{\sqrt{2\pi}} \left(-\frac{e^{x^{2}}}{2} \right)^{\frac{1}{2}} = \frac{1}{\sqrt{2\pi}} \left(-\frac{e^{x^{2}}}{2} - -\frac{e^{x^{2}}}{2} \right) = \frac{1}{\sqrt{2\pi}} \left(0 - 0 \right) = 0$$

Comes Pre-Standardized ("Standard Normal")

$$Y=2x^{2} = F(Y=x) = P(Y=x) = P(X=x) = P(X=x) = F(x=x) =$$

$$y=ax \Rightarrow E[y]=E[\frac{\lambda}{a}]$$
a>0

$$X = 6 \overline{Z} + \mu$$

$$Var[X] = 6^{2} Var[Z] = 6^{2}$$

$$Var[X] = 5^{2} Var[Z] = 5^{2}$$

$$Var[X] = 7^{2} Var[Z] = 7^{2}$$

$$Var[X] = 7^{2} Var[X] = 7^{2} Var[X] = 7^{2}$$

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