Plecture 15: Normaler 17, 2016 elent land Discrete REMOVED = 1 4(4)20 no PMF Confinesus (fletax = 1 2.4 Sweet (Sc) 和: 意(461) E[X] B. Street Exp(x) CHI. F1(9) J xf(x)dx 185 (X) Denile (2.0) Var(X) 4 (N) min { x F(x) 25 } $\frac{\sum (x-y)^2 p(x)}{named}$ gigntle Cu ((x-11) fla) dx 181 ing(x) (E. HO= P)

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$$f(y) = \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}} \qquad (a) f(x) \ge 0 \qquad x \in \mathbb{R} \vee$$

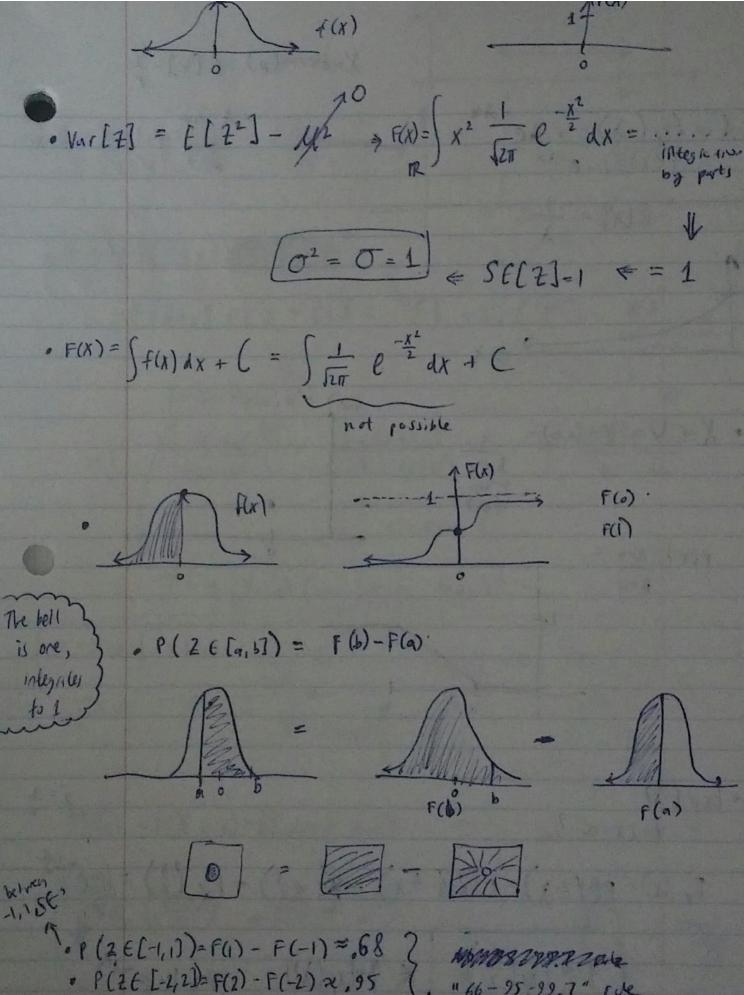
$$= \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}} dx = 1 ?$$

$$= \frac{1}{\sqrt{2\pi}} e^{-\frac{$$

$$= -e^{-u} \int_{0}^{\infty} = \left(e^{-(\omega)} - \lim_{k \to \infty} e^{-x^{k}}\right) = 1 - 0 \cdot 1 \sqrt{\frac{1}{2\pi}}$$

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$$= \int_{0}^{\infty} \left(e^{-(\omega)} - \lim_{k \to \infty} e^{-x^{k}}\right) = \int_{0}^{\infty} \left(e^{-x^{k}} - \lim_{k \to \infty} e$$



· P(te (-3,3))=P(3)-F(-3)≈.997

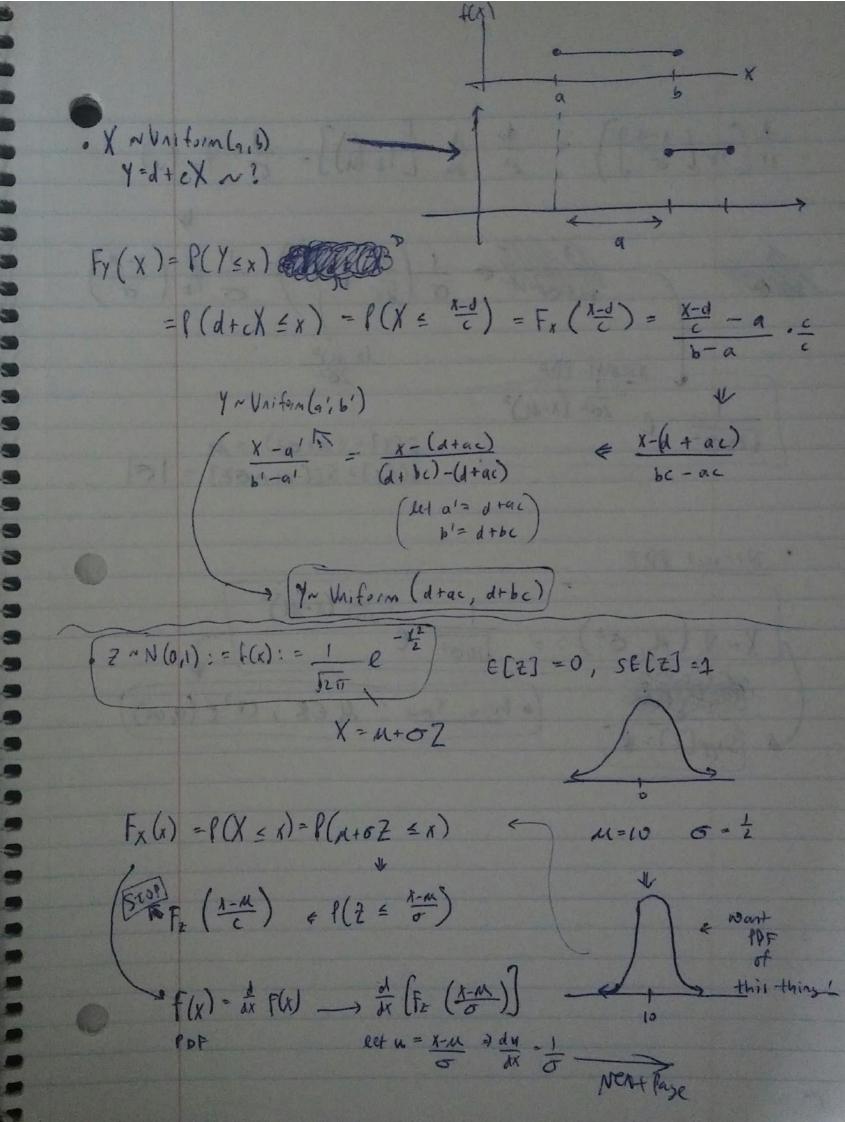
"66-95-99.7" rue "36 rve" " empirical rate"

$$X \sim f_{xp}(\lambda) := \lambda e$$

$$F(x) = 1 - e^{-\lambda x}$$

$$F(x) = \frac{1}{\lambda}$$

$$F(x) = \frac{1$$



$$\frac{d}{dx}\left(F_{2}\left(\frac{A-M}{\sigma}\right)\right) = \frac{dv}{dx}\frac{d}{dx}\left[F_{2}\left(u\right)\right] = \frac{1}{\sigma}f_{2}\left(v\right)$$

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$$\frac{dv}{dx}\left(\frac{A-M}{\sigma}\right)$$

$$\frac{dv}{dx}\left(\frac{A-M}{\sigma}\right) = \frac{1}{\sigma}f_{2}\left(\frac{A-M}{\sigma}\right)$$

8.5