(6pd) 3 597 (3) (0102) (0198) (6pd) (0/02) (0/98) $\frac{-\frac{1}{2} \left(\frac{n - n}{3n^2} \right)^3 \cdot 42 \sqrt{2\pi}}{(2\pi)} = CPF \left(\frac{3/5 - 12}{3/42} \right)$ $\mu = \frac{10}{4} \quad \text{Jhi} \quad \chi = \frac{2}{2}$ $P(X > 20) = 0/2 \implies CDF\left(\frac{20}{6} - \frac{10}{6}\right) = 0/2$ $\Rightarrow 0/8 = CPF\left(\frac{10}{6}\right) \implies \frac{10}{6} = 0/85$ $\implies 6 = \frac{10}{985} \quad \text{var}[X] = 6^2 = \frac{138}{40}$

 $=\frac{1}{4}$ $B=\frac{1}{\lambda}=4$ $f(x,\beta) = \frac{1}{R}e^{-\frac{x}{\beta}} = \frac{1}{4}e^{-\frac{x}{4}}$ P(X>t+s|x>t) = P(X>s) $P(X>1 \neq |X>9) = P(X>1) =$ $\frac{P(X > t+s \mid X > t) = P(X > s)}{P(X > 18 \mid X > 10)} = \frac{\infty}{1} e^{-8} dx = e^{-8}$ $Y = X^{2} \implies X = \sqrt{Y} \implies u^{-1}(Y) = \sqrt{Y}$ f(y) = f(y) = f(y) = f(y) = f(y) f(y) = f(y) = f(y) = f(y) f(y) = f(y) f(y) = f(y) = f(y) f(y) = f(y)

$$\frac{1}{Y_1,Y_2} \left(y_1, y_2 \right) = \frac{1}{X_1,X_2} \left(\frac{Y_1}{Y_2}, \frac{Y_2}{Y_2} \right)$$

$$-\frac{y_2}{18} \qquad y_1 = 1, 2, 3, 4, 6, y_2 = 1, 2, 3$$

$$f(y_1) = \frac{y_2}{18} = \frac{1+2+3}{18} = \frac{1}{3}$$

$$f(y_1) = \begin{cases} \frac{1}{3} & y_1 = 1, 2, 3, 4, 6 \\ y_1 & 0.w \end{cases}$$

$$P(a < Y < b) = \begin{cases} \beta \\ f(y) dy \end{cases}$$

$$= P(-\sqrt{b}) (x < -\sqrt{a}) + P(\sqrt{a} < x < \sqrt{b})$$

$$= \begin{cases} \sqrt{a} \\ f(x) dx + f(x) dx \end{cases}$$

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$$= \begin{cases} \sqrt{a} \\ f(x) dx$$

$$= \int_{b}^{a} f_{x}(\sqrt{y}) \times \frac{1}{2\sqrt{y}} dy + \int_{a}^{b} f_{x}(\sqrt{y}) \times \frac{1}{2\sqrt{y}} dy$$

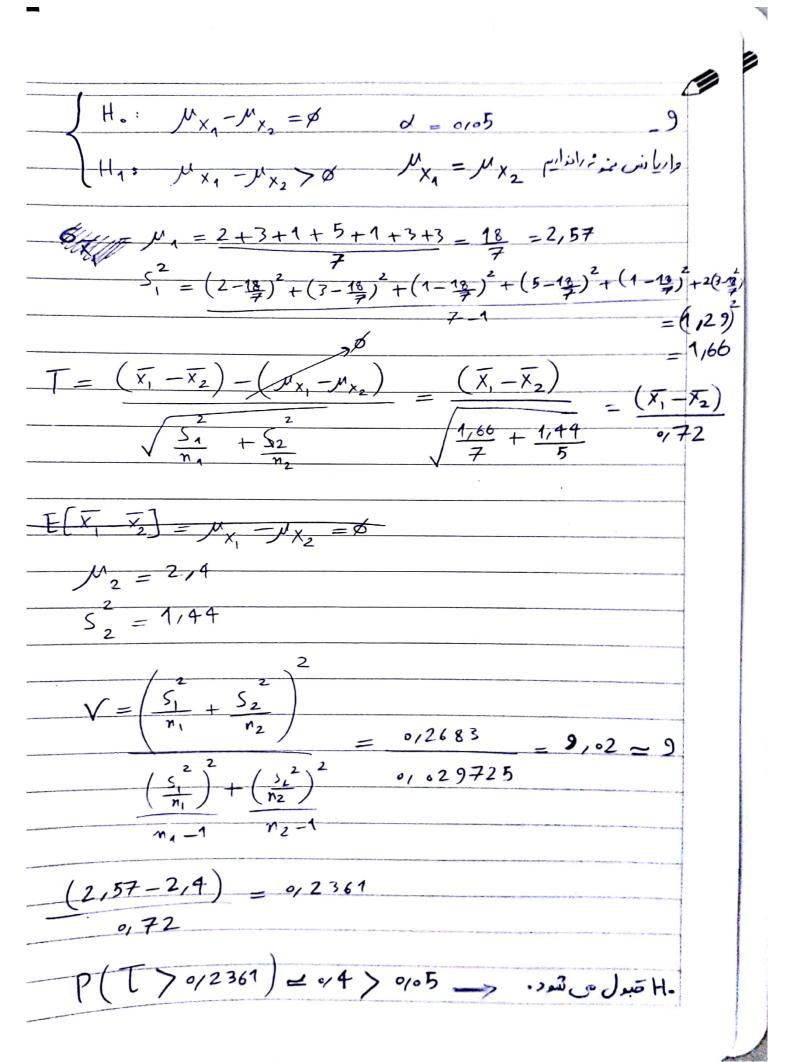
$$= \int_{a}^{b} \frac{1}{2\sqrt{9}} \left(f(\sqrt{9}) + f(\sqrt{9}) \right) dy$$

$$\Rightarrow f(y) = \frac{1}{2\sqrt{y}} \left(\frac{f(-\sqrt{y}) + f(\sqrt{y})}{x} \right)$$

$$=\frac{1}{2\sqrt{9}}\left(\frac{1-\sqrt{9}}{2}+\frac{1+\sqrt{9}}{2}\right)=\frac{1}{2\sqrt{9}}$$

H₀:
$$\mu = 1300$$
 $M = 400 \quad \alpha = 1$
 H_1 : $\mu \neq 1300 \quad 1252, 257 \quad 100$

 $2 = \frac{1252 - 1300}{12,85}$ P(Z > 3,82) = 0/0005 $0/0005 < 0.05 \implies 0.00 Ho$





$$M_{\chi} = 200$$
 _10
 $G_{\chi} = 15$
 $N = 20 < 30 V = 19$
[we] Time well.

$$Z = \overline{X} - 2 \emptyset \delta = \overline{X} - 2 \emptyset \delta$$

$$\overline{15}$$

$$= 2 \left(DF \left(\frac{186 - 286}{3,35} \right) = 2 \left(DF \left(-5,37 \right) \right)$$

$$= 2 P \left(Z \left(-5,97 \right) = 2P \left(Z \right) = 0 \text{ and } z = 0$$

 $P(180 < X < 220 \mid u = 230) = CDF(-10/3.35) + CDF(-50/3.35)$