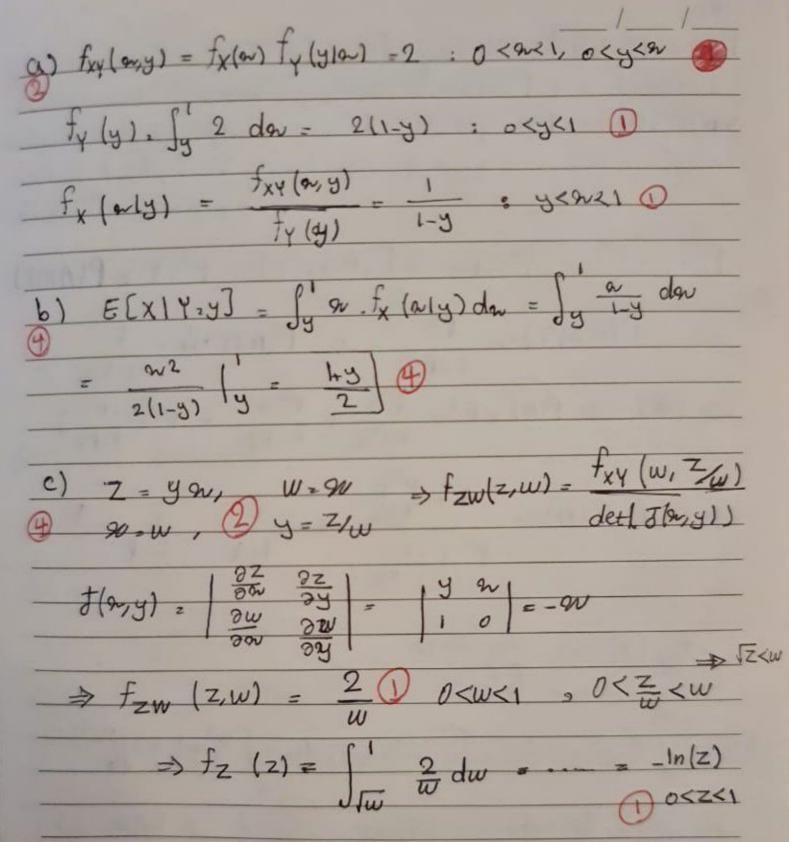


b)
$$f_{XY}(X) = \int_{0}^{\infty} \frac{f_{XY}(x_{1})}{f_{Y}(y_{1})} dy$$

$$\Rightarrow \int_{0}^{1} \frac{g_{2}^{2} + f_{3}^{2} y}{2g_{3}^{2} + f_{3}^{2} y} dy = \frac{x^{3}}{2(1+y_{1})} \frac{1}{0} + \frac{f_{3}^{2}}{2+2y_{2}^{2}} \frac{1}{2}$$

$$\Rightarrow \int_{0}^{1} \frac{g_{2}^{2} + f_{3}^{2} y}{2g_{3}^{2} + f_{3}^{2} y} dy = \frac{f_{2}^{2} + f_{3}^{2} y}{2} \frac{1}{0} \frac{1}{0} \frac{g_{2}^{2} + f_{3}^{2} y}{2} \frac{1}{0} \frac{g_{2}^{2} + f$$



P-value = P(X>A|Ho) HA: / >1.5 = P(Z> A-1.5) = Pr(Z>50(A-1.51) = 0.016 عبق جدول نرمال استلاداد دنظ مورد دظر برابر العث با 2.15 (\Rightarrow 50 $(A-1.5) = 2.15 <math>\rightarrow A_21.5 + 2.15 = 1.543$ 1) x- y Z1- x < /2 x + y Z1-x 2 1-x = 0.99 -> 1-a/2 = 0.995 -> Z 1-x = 2.58 1.543 - 0.2 x 2.58 < 1 2 1.543 + 0.2 x2.58 ⇒ 1.4914 < 1.5946 D ميافين وابعى ملوش موجود در مساماهاى اين برند با اعال ١٠٥٠ داخل فازه (1.4914, 1.5996) outs (1.4914, 1.5996)

