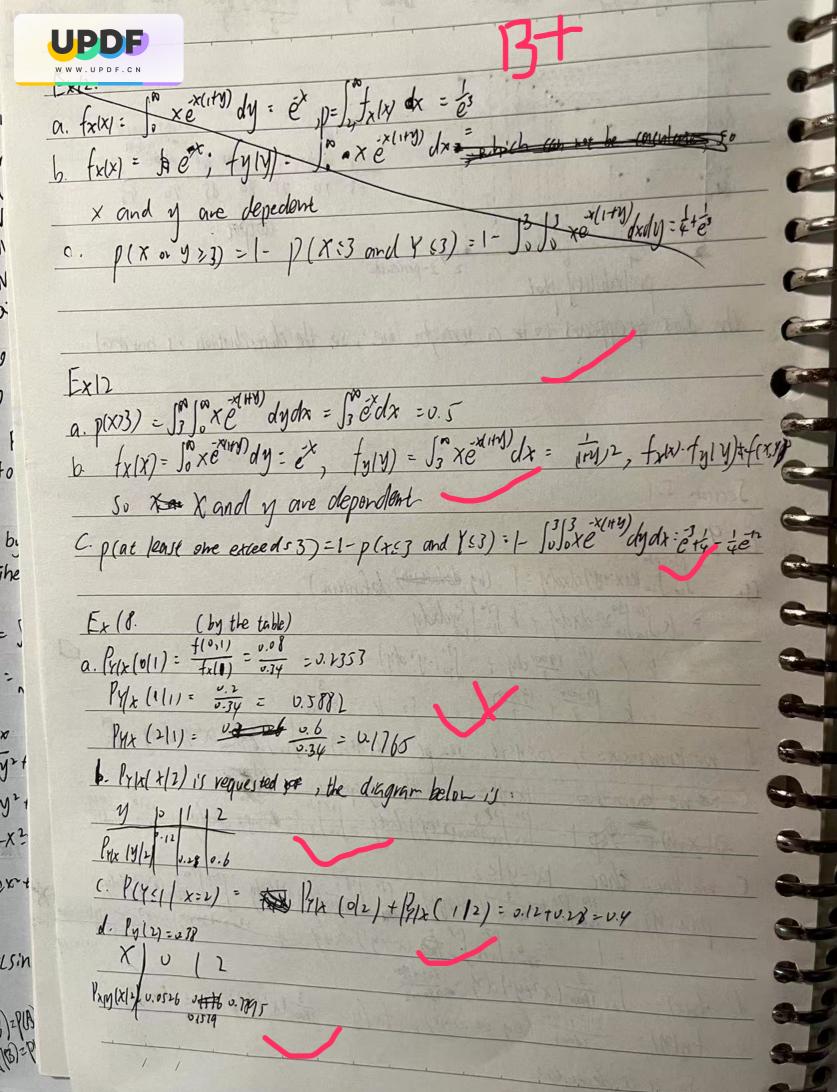


So it is dependent



a. Trix (n) = fixin) = ((x2+4)) b. P(Y225 | x=22) = \frac{k(x^2+y^2)}{(0(xy^2+0.05))} 20 \(\times \text{230} \) \(\text{k} \cdot \frac{3}{1800000} \) P(Y225) = Sis freshed fry(y)dy = Sis (10/cy2+ 0.05/dy = 0.7) C. E(Y|x=22) = Jay + 4/x (y/22) dy = Jo y. ker494) dy = 25.7]

 $E(Y^{2}|x_{2})^{2} = \int_{20}^{30} y^{2} \frac{|(0)^{2}+y^{2}|}{|0|(2)^{2}+0.05} dy = 652.0.2$

V(Y | X:22) = E192 (x=22) - E(Y | x=22) = 8.24

Ex 24. p(X,y)=50, E(h(X,y)) = h(X,y) - p(X,y) = \$6 = 2.8

Revenue = 3x 407, Ecrevenue) = E(3x+104) = EZ (3x+104).plx.y)=0 plo.9+-35.pl), 2)= Ex26

Ex 37.

Since E(xy) = E(x) · E(Y) , (onv (X,Y) = E(xY) - E(x) · E(Y) = E(x) · E(Y) - E(x) · E(Y) - E(x) · E(Y) - E(x) · E(Y) - E(x) · E(Y) · E(Corrections (x, x) = 0

a. Cov (axtb), Cftd) = E((axtb)(cftd)) - E(axtb)(cftd)=E(acXYtadx+b)tbd]-E Ex 35 = GLENNER CEINETH

1. Con (axtb) (axtb, cxtd) = Cov(axtb, cxtd) = ac(ov(x,x)) = cov(x,x)

Tracked Trecreen = lallo) Tracked Trecreen

6. Corr (axtb, cital) = - Corr(X, 1)