Q 3.4 given

$X_1 = 0$ $P(Y \leq 0.5)$?

Since $P(Y \leq y) = F_Y(y)$ need to be evaluate

$$F_Y(y) = \underbrace{P(X_1 \leq x)}_{\substack{0 \text{ due} \\ \text{to } X_1 = 0}} P(X_2 \leq x) P(X_3 \leq x)$$

$F_Y(y) = 0$ everywhere!

$\therefore$ $P(Y \leq 0.5)$ given $X_1 = 0$ is 0