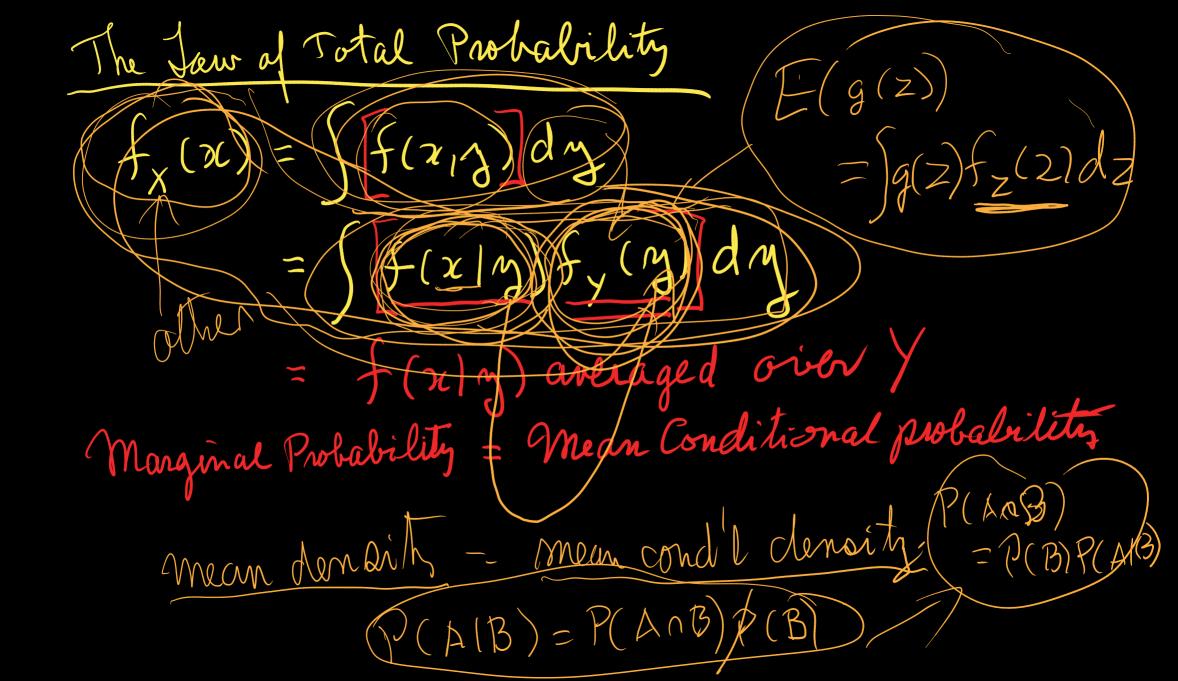
Continuous Conditional Pensitus Siven a joint densits $f_{xy}(x,y)$ Ove can get $f_{\chi}(x) = \int f_{\chi\chi}(x,y) dy$ Conditional density for / given X= 2 1 fx(21) >0 Note: Of X is continuous then P(X===) = 0 no we are conclitioning on a set of probality o But that's sleay because fyly y/2) is NOT the propability of 1/= y given X= 2 at'o just a density that gives you on integrete.



Example D' cotherwise Note: How to integrate f - Choose I variable for Other for conditional (10) LM & U(20)

y-first Inner Define: Outer then inner Evaluate: Inna then outer.

Find
$$\{x,y\} = \{\lambda^2 e^{-\lambda y} \}$$
 of therwise

Find $\{x,y\} = \{x\} = \{$

