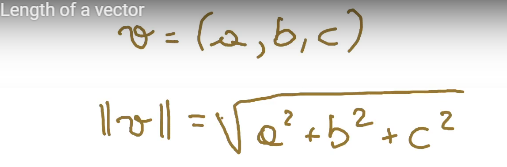


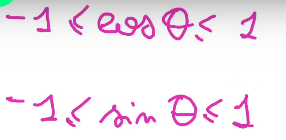
Length (aka as norm) of vector



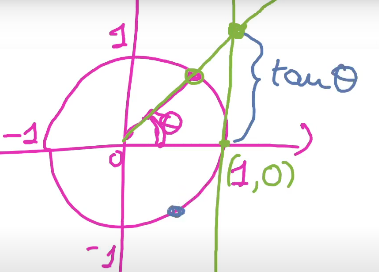


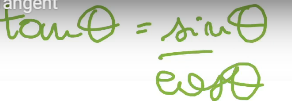
Cosine is x-axis, sine is y-axis

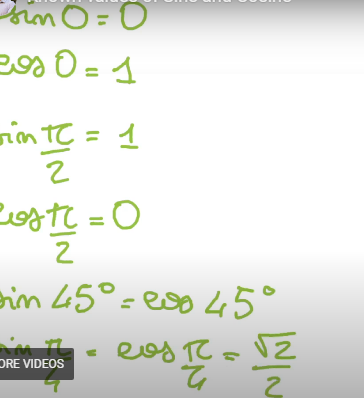


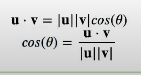


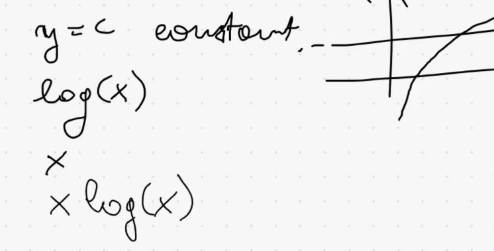


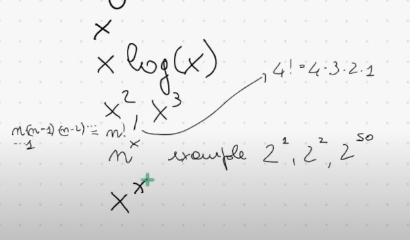


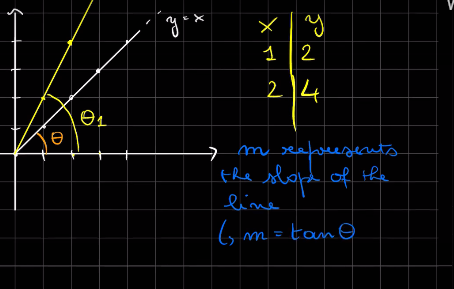


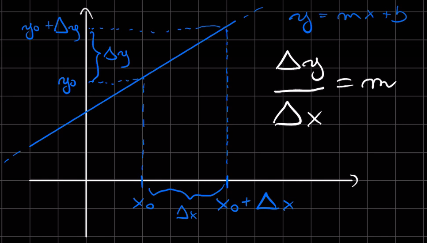


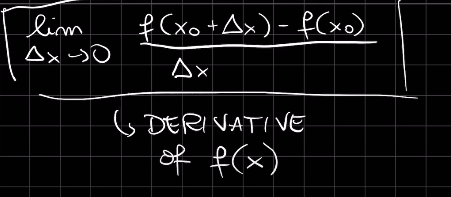


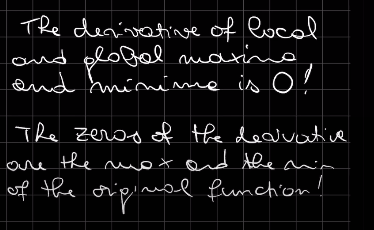




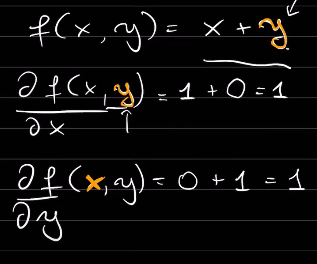


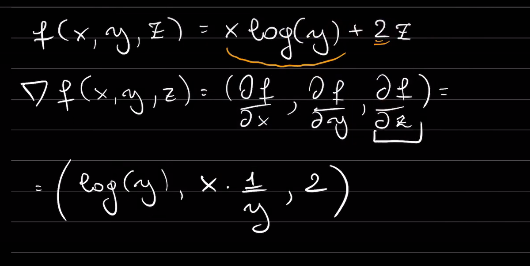




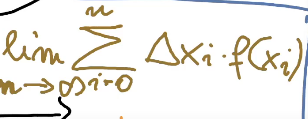


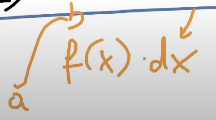
Partial derivatives



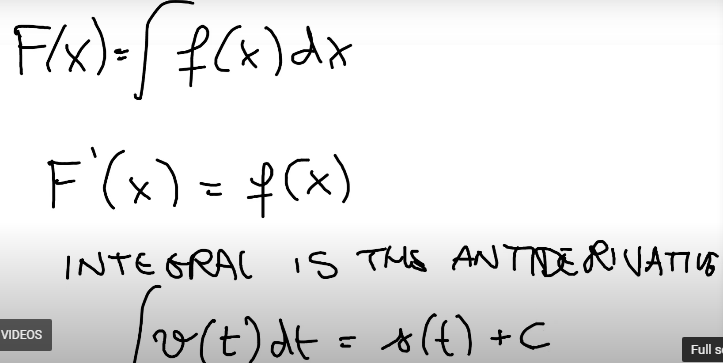


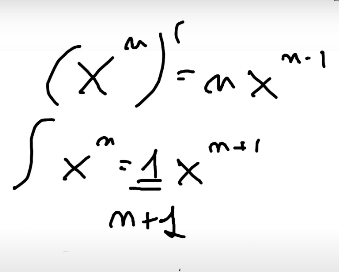
Integrals

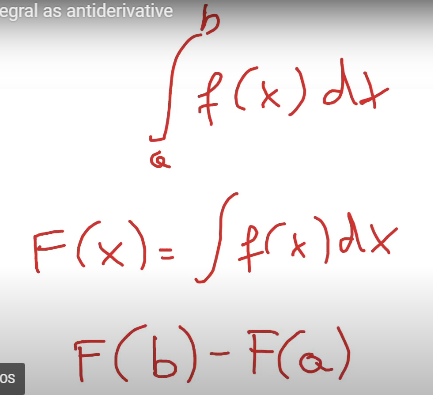


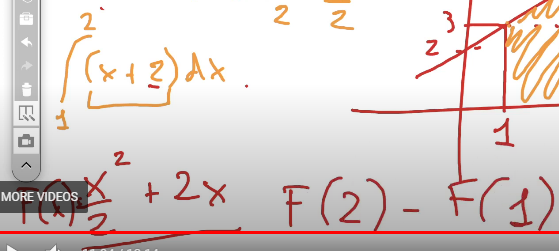


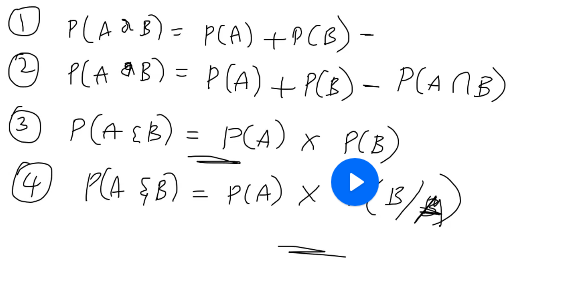
If you have derivative, you can get the og function by doing the integral of it

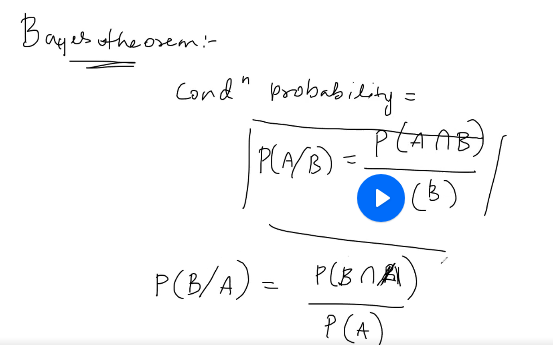


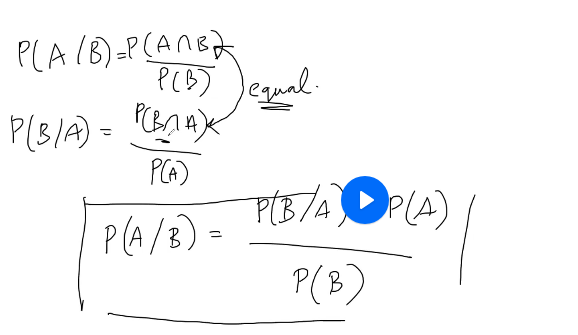


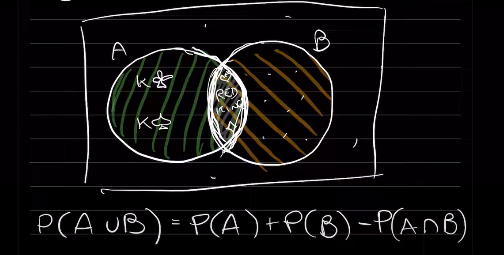


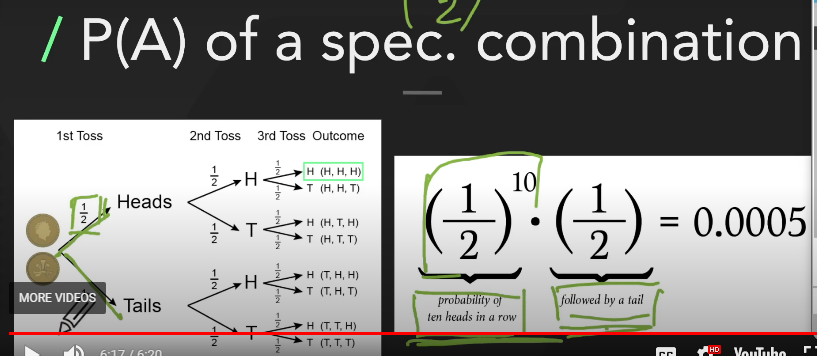


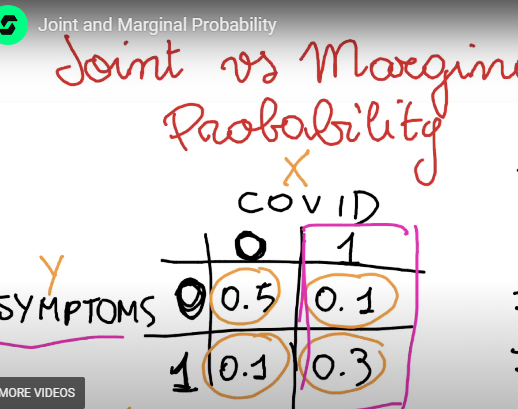




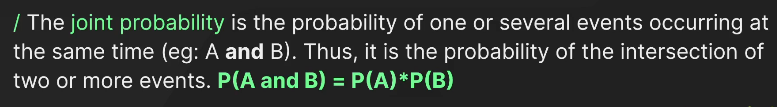


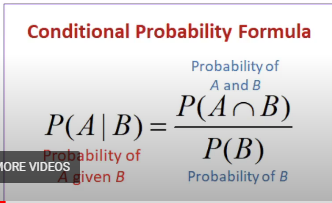


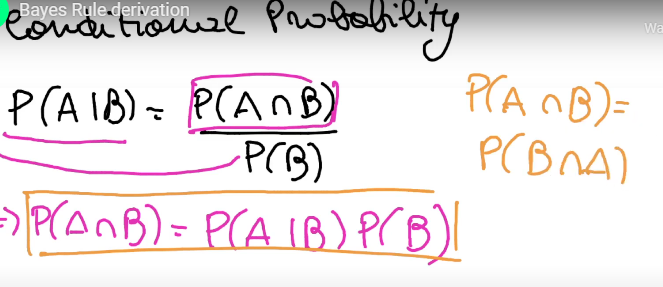


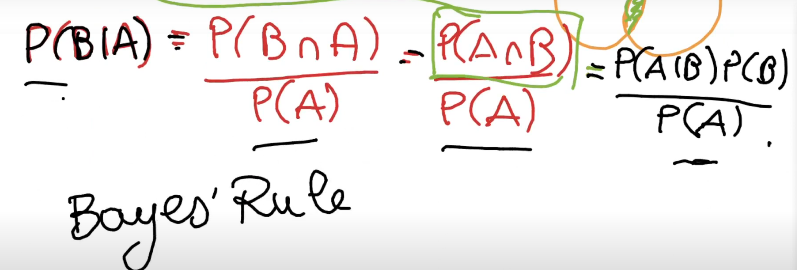


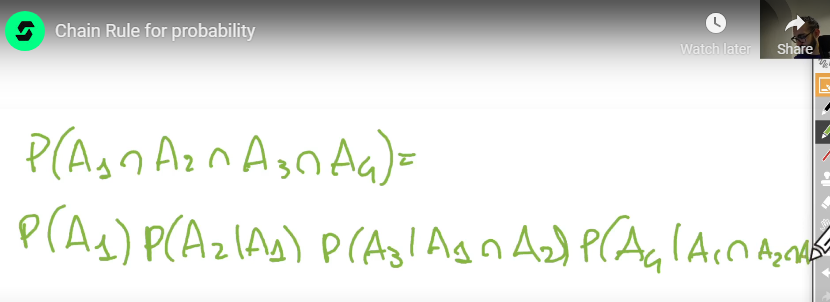
Joint is eg whats probability of having symptoms (Y) but not having covid(X) which is = 0.1(considers X and Y) and then marginal probability is eg whats probability of having covid (X) = 0.1+0.3 = 0.4 (considers X only)

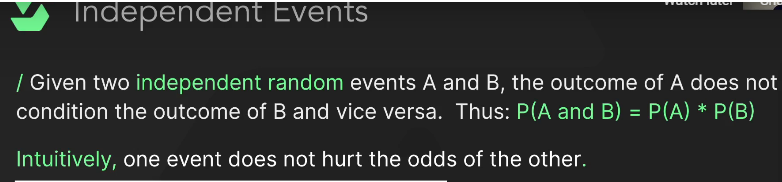




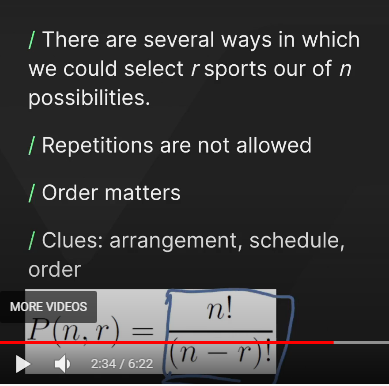




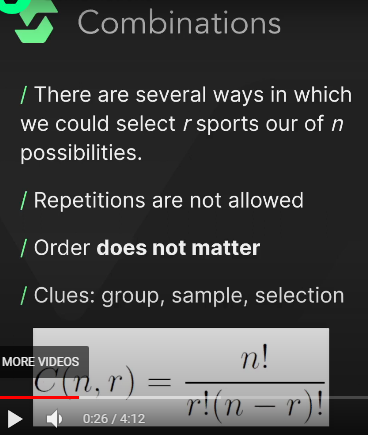




Permutations

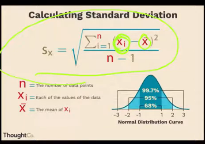


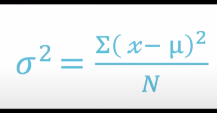
Combinations



Median

Is middle number in a **SORTED** list





Correlation

