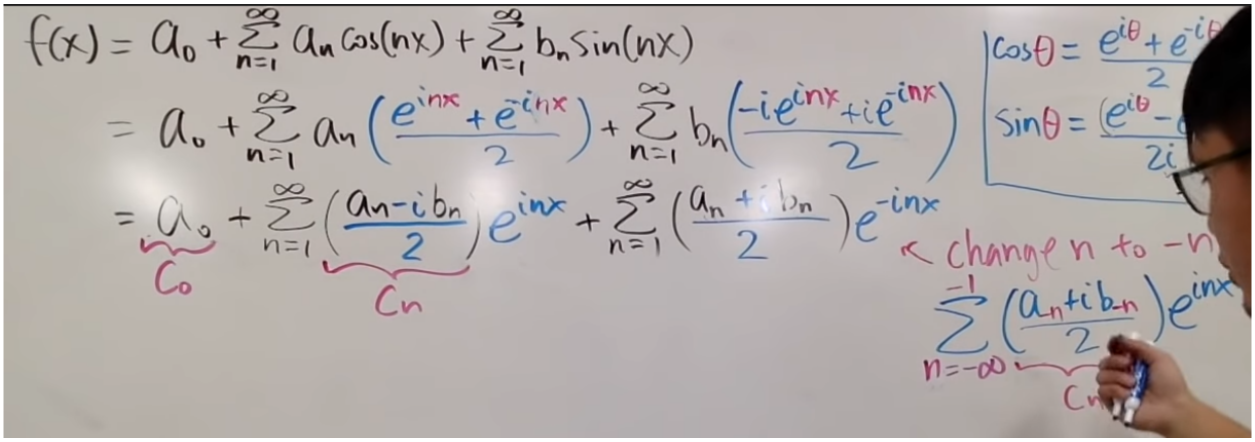
I just realized that the complex fourier series is different from the real fourier series. Here is a video explaining the complex fourier series: https://www.youtube.com/watch?v=aC0j8CW58AM



He shows that the real fourier only needs summation from 1 to infinity while the complex is done in 2 parts: 1 to infinity and -1 to negative infinity while n = 0 is neglected. I think this is why the n = 0 term was ignored in the paper but how do I solve for a_o (or c_o)? You can see below that he ignores c_o term in the fourier series???