Substitute the solution for $C^{(2)}$ (and 150% of the Leature mater) in the CS equation and show that
Substitute the solution for G ⁽²⁾ (eq. 159.3 of the lecture notes) in the CS equation and show that
it is actually a solution. (There are a few tips for how to do this in Peskin, page 420, starting at eq. 12.74)