Ch.1 21-23

Problem: Stuck on derivation of 21. (This problem is proven in Ch. 5)

Ch.2 18.c Prove that $\sqrt{2} + \sqrt[3]{2}$ is irrational.

Problem: Can't find coefficients integer a_i such that $0 = (\sqrt{2} + \sqrt[3]{2})^n + (\sqrt{2} + \sqrt[3]{2})^{n-1} a_{n-1} + ... + a_0$. This solution would imply that $\sqrt{2} + \sqrt[3]{2}$ is irrational by 18.a.