MATH 844: HOMEWORK 10, DUE APR 13.

10. Every year, the London Sunday Telegraph has a New Year's Quiz. In 1995, two of the questions were the following:

(a) Solve the equation $A^3/B^3 + C^3/D^3 = 6$, where A, B, C, D are all positive whole numbers below 100.

(b) (A special question with a 450 pound prize.) Either give a second solution to the above equation where the four variables are all whole numbers above 100 (A, B and C, D relatively prime), or demonstrate that no such second solution can exist.

[It's too late to claim the prize.]