TUTORIAL for CLASS 1S2 — ALGEBRA THUMS SESSION WEEK: 17 SECOND HALF YEAR WEEK: 3 Date: 8/2/07 Work carried over from last week: See Week 16 Tutored theet. The une of a contradiction argument in N=9a,b,< is very important. So too in Nº 13. MAIN EFFORT THIS WEEK - VERY IMPURITANT PROOF BY INDUCTION on follows: ON Sheet SSI. Alg. Ess 1: Nº 15 a, b, c, e, g, i. I for can do
Nº 15 a, b, c, e, g, i. I for can do ALIO Nº 16.

Bring (among other things) with you to the Tutorial the following:

This Sheet, Sheet, 651, 652, 653.

SOLUTION

HOMEWORK

(for marking) to be handed in as directed before this Tutorial:

- (1) Prove by induction that I integer n > 1, $\sum_{i=1}^{n} r(r+3) = \frac{1}{3}n(n+1)(n+5).$
- Pare by a contradiction argument that 3+ \sqrt{2" is inational. [You may assume that V2 is wationed.]

ym should look at Old Degree Esan Popen Notice: on the Student Website to see other induction question.

> ZIM 2/2/07