

REWRITE_TAC[PNT_PARTIAL_SUMMA
REWRITE_TAC[SUM_PARTIAL_PRE] TH
REWRITE_TAC[GSYM REAL_OF_NUM_A
SUBGOAL_THEN `{p | prime p /\ p = 0}
REWRITE_TAC[EXTENSION; IN_ELIM_
MESON_TAC[PRIME_IMP_NZ];
ALL_TAC] THEN
REWRITE_TAC[SUM_CLAUSES; REAL_M
MATCH_MP_TAC REAL_LIM_TRANSFO
EXISTS_TAC
\\n. ((&n + &1) / log(&n + &1) *
sum {p | prime p /\ p <= n} (\p. log(
sum (1..n)
(\\k. sum {p | prime p /\ p <= k} (\p.
((&k + &1) / log(&k + &1) - 1)
CONJ_TAC THENL
[REWRITE_TAC[EVE
ALL_TAC] THEN
MATCH_MP_TAC REAL_OF
EXISTS_TAC

**Our proofs
aren't like
your proofs.**