- homework 7 4.6

  3) Use proof by controdiction to show that for all INT n 13n +2 /3

  Suppose not; there is an INT such that 3n+2 = by 3. By def of divisibility 1

  3n+2=3/r for some INT K Subtracting 3n from both sides gives that 253k-3n = 3(K-N) = 3 < 2 / 372
  - 5) Formulate negation; prove by contradiction There is a greatest over int; N NIS ever & N Z N For every INT N Let m= N+Z then m is an even INT Swee it has the sum of two INT, even m>m source m= N+Z

19) Prove 6 y contraposition Suppose of and 5 are positive real numbers, r<10 and 5<18, r35/00