

Can Computers Compute?

University of Virginia
Undergraduate Mathematics Lecture Series



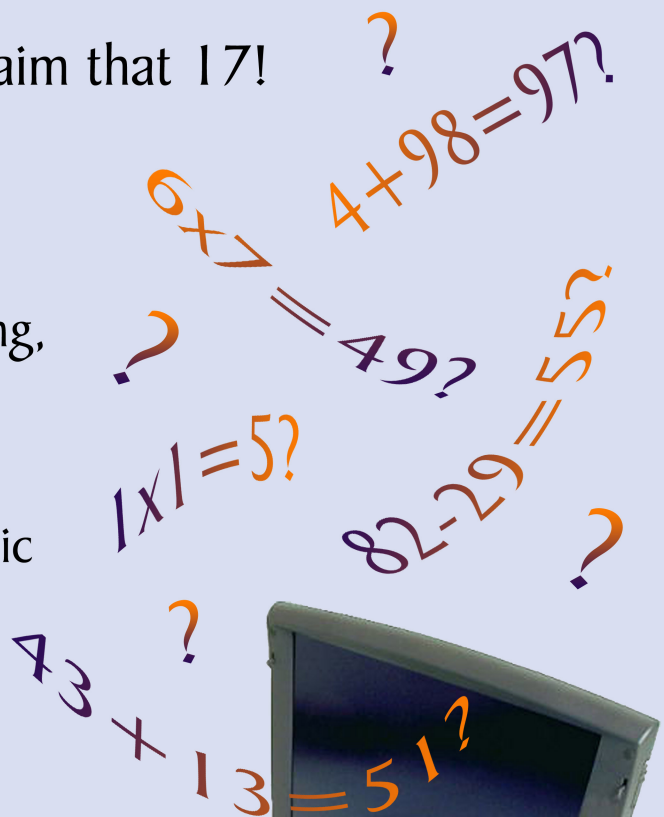
Warwick Tucker
Uppsala University, Sweden

Professor Tucker has received numerous awards, including the European Mathematical Society prize for distinguished contributions in mathematics.

Why does your computer tell you that a sixth-degree polynomial has more than 20 real roots?

Why does your computer claim that $17!$ is a negative number?

Professor Tucker will present a set-valued approach to computing, aiming to produce enclosures rather than approximations to sought quantities. No previous knowledge of computer arithmetic required, nor any mathematics beyond basic calculus.



March 14, 2007

3:30-4:30pm

Minor Hall 130

Organizer: Irina Mitrea, Department of Mathematics