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Julia Robinson And Hilbert's Tenth Problem

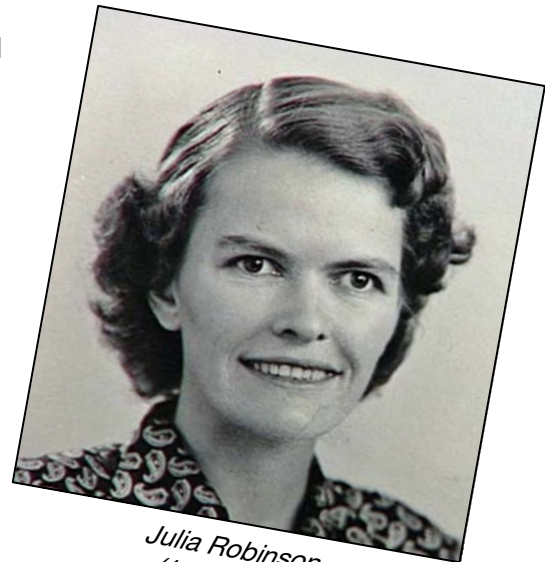
*The story of an American mathematician
and her passionate pursuit of Hilbert's tenth problem.*

A one-hour biographical documentary, **Julia Robinson and Hilbert's Tenth Problem** tells the story of a pioneer among American women in mathematics. Julia Robinson was the first woman elected to the mathematical section of the National Academy of Sciences, and the first woman to become president of the American Mathematical Society.



Julia Robinson at age 3

Julia Robinson's work, and the exciting story of the path that led to the solution of Hilbert's tenth problem in 1970, produced an unusual friendship between Russian and American colleagues at the height of the Cold War. In this film, Robinson's major contribution to the solution of H10 triggers a tour of 20th century mathematics that moves from Paris in 1900, through the United States, to the Soviet Union, and back.



*Julia Robinson
(1919-1985)*

The film covers important events in the history of modern mathematics, while conveying the motivations of mathematicians and exploring the relationship between mathematical research and the development of computers. Julia Robinson's story, and the presence of prominent women in mathematics in the film, is an inspiration to young women to pursue educational opportunities and careers in mathematics.

Julia Robinson's work hinged on the ideas of key protagonists in the history of mathematics and logic: David Hilbert, Alfred Tarski, Alan Turing, and Kurt Gödel, among others. The film interweaves the personal story of this important figure in American mathematics and the ideas that dominated her passionate pursuit of the field.

Three of the four mathematicians involved in solving H10 are in the film—Yuri Matiyasevich, Martin Davis and Hilary Putnam. Fortunately, Julia Robinson's place in the film is filled by her biographer and sister, Constance Reid, who also wrote highly acclaimed biographies of David Hilbert and of other modern mathematicians, including E. T. Bell.



Julia Robinson and Hilbert's Tenth Problem was made possible by a grant from Margaret and Will Hearst, and by generous support from the Clay Mathematics Institute. Produced and directed by George Csicsery. With the participation of Constance Reid, Martin Davis, Hilary Putnam, Yuri Matiyasevich and many others. Narrated by Danica McKellar. Edited by Tal Skloot. Music by Mark Adler.



Yuri Matiyasevich

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Julia Robinson

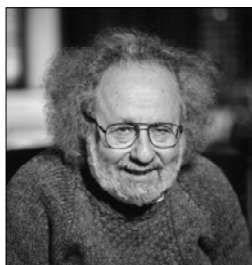
Julia Robinson And Hilbert's Tenth Problem

A film by
George Paul Csicsery

Portraying a pioneer among American women in mathematics, this video biography tells a dramatic human story against a background of mathematical ideas. At its center is Julia Robinson's contribution to the solution of Hilbert's tenth problem (H10), and how it led to an unusual friendship between Russian and American colleagues at the height of the Cold War.



Yuri Matiyasevich



Martin Davis



Hilary Putnam



Constance Reid

Extra features on the DVD include:

- *Fibonacci and the Golden Mean* (1996) by Beau Janzen
- Constance Reid and Julia Robinson
- Diophantus to David Hilbert
- Decidability
- Strategies for solving Hilbert's Tenth Problem
- Turing machine

DVD

ISBN: 978-097245885-6

Length: 54:10 minutes



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Julia Robinson
And Hilbert's Tenth Problem

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