

CSE 43 I

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<http://www.cs.washington.edu/43I>

Initial Reading Assignment: Sipser Chapter 3

$$x - 17 = 0$$

$$2x - 17 = 0$$

$$3x^2 - 17x + 5 = 0$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

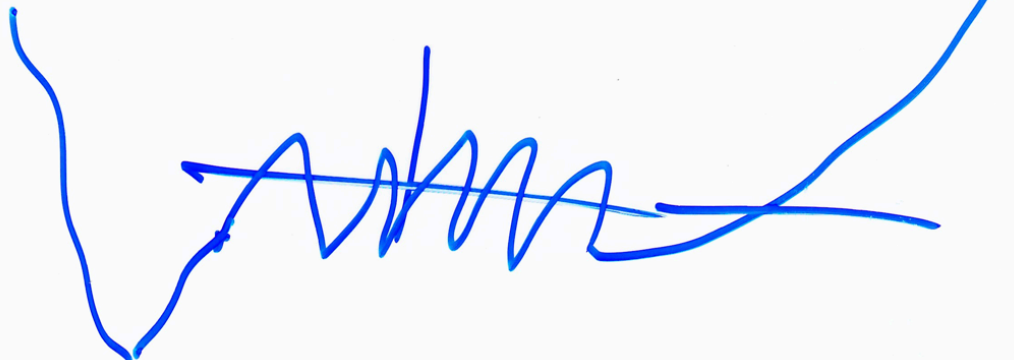
$$6x^3y^2 + 3xy^2 - x^2 - 10 = 0$$

$$x = 5 \quad y = 3 \quad z = 0$$

Diophantine equation

Hilbert's 10th

$$17x^{10} - 42x^9 + 7x^2 \dots = 0$$



Quadratic Diophantine Equ.

Regular expr. \cup $*$ complement
 $= \phi$

True $> 2^2 2^2 2^2$ } $>$ any fixed k .

