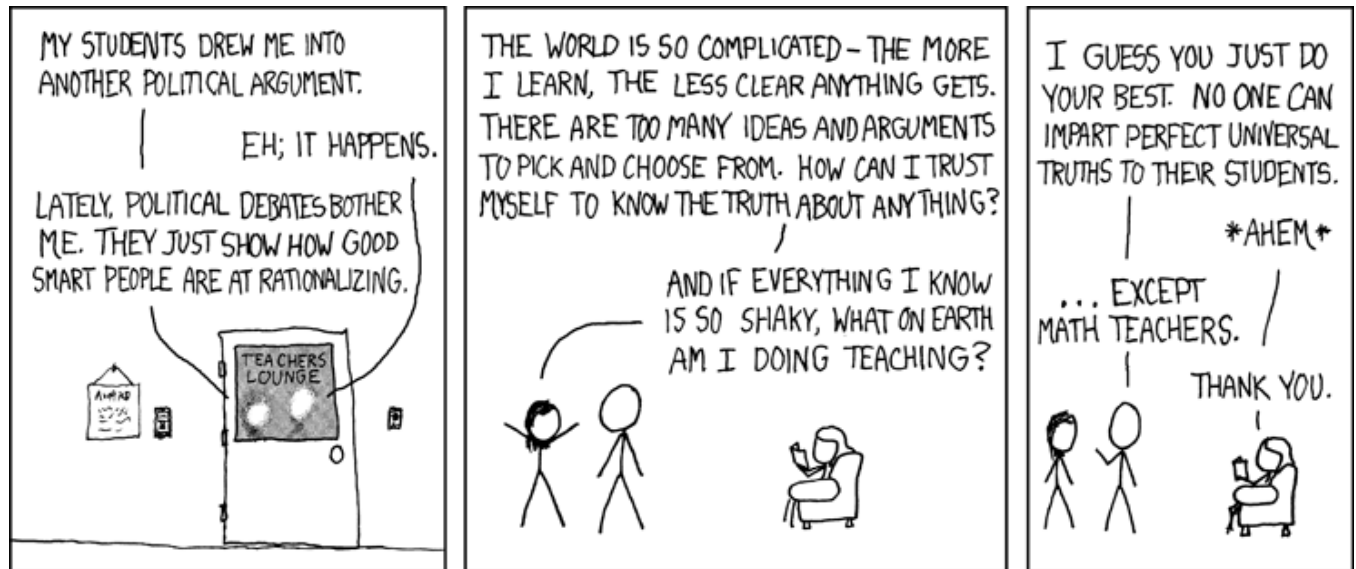# CS 1428
Lab 2 Section 6 and 19

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Review Topics

- console input/output (I/O)

- expression evaluation

- arithmetic operators

- shorthand operators

Part 1: Write a program

The quadratic formula is as follows:

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{1}$$

- Prompt the user for the values of a, b, and c determine what possible solutions for x. Note: you will need to calculate two (2) values because of the $\pm$.

- You will need to use the **sqrt()** function which is available in the **<math.h>** library.

- In the case where the values of a, b and c result in a negative under the root you should get **nan** as the result of your calculations. This signifies **not a number** which occurs when you try to take the root of a negative, divide by zero or some other operation that is undefined in mathematics. To avoid complicating the assignment any further we will not check for **nan** and discard it, instead we will print it as if it is a valid answer and expect the hypothetical *user* to know well enough to ignore it.

- Make sure you have the proper header, and that your program complies with the style guidelines.

- Print out a copy of your program, **AND** upload it to homework upload. Make sure your file name is correct!