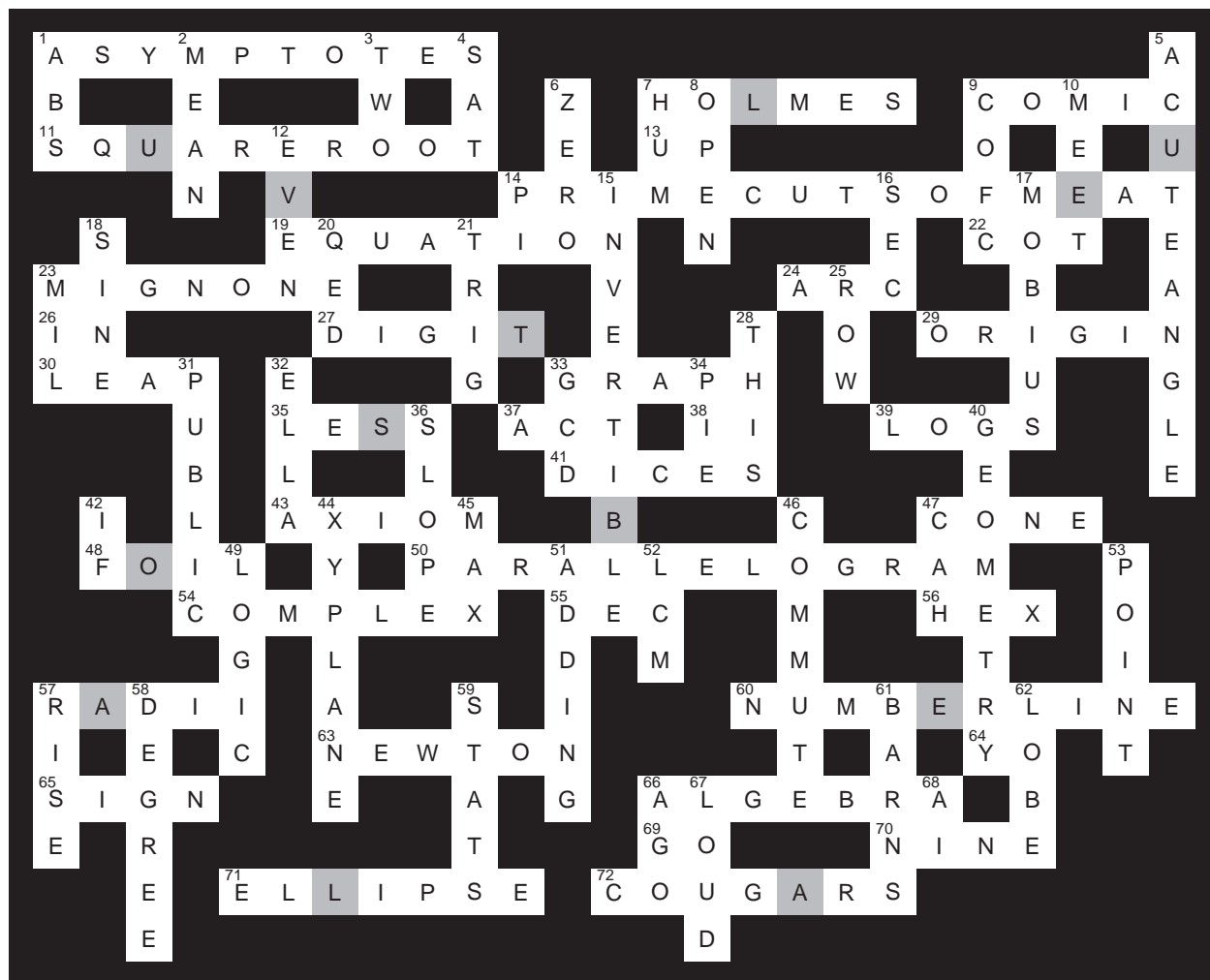


All-Day Sprint 2012: Mostly Mathematical Crossword/Anagram

(Put one answer sheet, the one with your school name printed on it, into the box outside Maybank Hall by 2:00PM)



Across:

- | | | | |
|----|--|----|--|
| 1 | Straight lines that stay really close to a graph | 38 | This product of numbers equals -1 |
| 7 | Fictional detective whose arch enemy is a mathematician | 39 | A class of functions satisfying $f(ab) = f(a) + f(b)$ (abbrev.) |
| 9 | Funny | 41 | Chops, in a certain way |
| 11 | An angular carrot? | 43 | Fact accepted from the outset (or the ship in Wall-E) |
| 13 | Heartwarming Disney film about a grumpy man with a lot of balloons | 47 | Surface whose points all lie on lines through a fixed vertex |
| 14 | What you buy from a factor-phobic butcher? | 48 | Mnemonic for multiplying binomials |
| 19 | It says that two things are the same | 50 | Message wired electronically from one line to another line it has never met? |
| 22 | It's tan raised to the power -1 | 54 | Describes a number with non-zero imaginary part |
| 23 | He's chair of the College's math department | 55 | Prefix indicating "ten" |
| 24 | Part of a circle | 56 | Prefix indicating "six" |
| 26 | Not out | 57 | Circle sizes |
| 27 | Part of a number...or a hand | 60 | What you get if you give more anesthetic to a one-dimensional object? |
| 29 | Where the axes meet | 63 | One of the inventors of calculus |
| 30 | Kind of year that is longer than usual | 64 | First person pronoun in Peru |
| 33 | Geometrical representation of a function | 65 | It tells whether a number is positive or negative |
| 35 | Word often partnered with "than" | | |
| 37 | Common alternative to 4 Down | | |

- 66 Branch of mathematics whose name is derived from the Arabic for “the joining of broken parts”
- 69 Game played with white and black pieces
- 70 Most people have 11 fingers (if this is the base)
- 71 Graph of $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
- 72 Name of College of Charleston’s sports teams
- 28 Not that
- 31 The College of Charleston is _____, not private
- 32 She was “Enchanted” to always obey
- 33 The biggest divisor of a pair of given numbers (abbrev.)
- 34 The pastry, not the irrational number
- 36 Incline
- 40 Branch of mathematics whose name is derived from the Greek for “measuring the Earth”
- 42 Word often partnered with “then”
- 44 Where graphs commonly live
- 45 The biggest value (abbrev.)
- 46 What numbers being multiplied and people driving to work both do
- 47 soh_____toa
- 49 Branch of mathematics (and philosophy) whose name derives from the Greek word for “word”
- 51 Finding the sum
- 52 Smallest multiple of two given numbers (abbrev.)
- 53 Most basic object in geometry
- 57 36 Down is computed as _____ over run
- 58 Common unit for measuring angles
- 59 Branch of mathematics that summarizes and analyzes data (abbrev.)
- 61 Buildings where farmers keep their animals
- 62 Although there are four in your cerebral cortex, your ear only has one of these
- 66 “It was many years _____.”
- 67 Describes sound waves with high amplitudes
- 68 Bogus brains (abbrev.).

Down:

- 1 Stomach muscles (abbrev.)
- 2 Average
- 3 The degree of a quadratic polynomial
- 4 Test score often used in college admissions (abbrev.)
- 5 An adorable vertex?
- 6 $1^{50} - 15^0$
- 7 A way to sing even if you don’t remember the lyrics
- 8 Describes an interval which does not include its endpoints
- 9 Part of the College’s URL
- 10 Math _____
- 12 Describes f if $f(x) = f(-x)$ for all x
- 14 The circumference of a circle divided by its diameter
- 15 Describes functions whose actions can always be undone
- 16 One over cos
- 17 Mathematician who studied topological properties of a twisted band
- 18 A famous periodic function
- 20 Acronym used to end proofs
- 21 Branch of mathematics where you use 22 across (abbrev.)
- 23 A “thou” squared
- 25 Horizontal collection of numbers in a matrix

Anagram: The letters in the grey boxes can be rearranged to give an answer to the clue “A non-negotiable price?” Write the answer in this box:

ABSOLUTEVALUE

Hints:

- Clues ending in “?” are mathematical puns. For example, “List of special requests for a surgeon?” could be “ORDEROFOPERATIONS” and “French cheer for subtractions?” could be “VIVELADIFFERENCE”.
- To score this All-Day Sprint, we will first eliminate any answer sheets which do not have a correct answer to the anagram. Then we will give one point for each box filled with the correct letter. So, your score will be decreased by either leaving boxes blank or by filling them with incorrect letters.
- The winning team will be selected randomly from among those schools that get the top score.