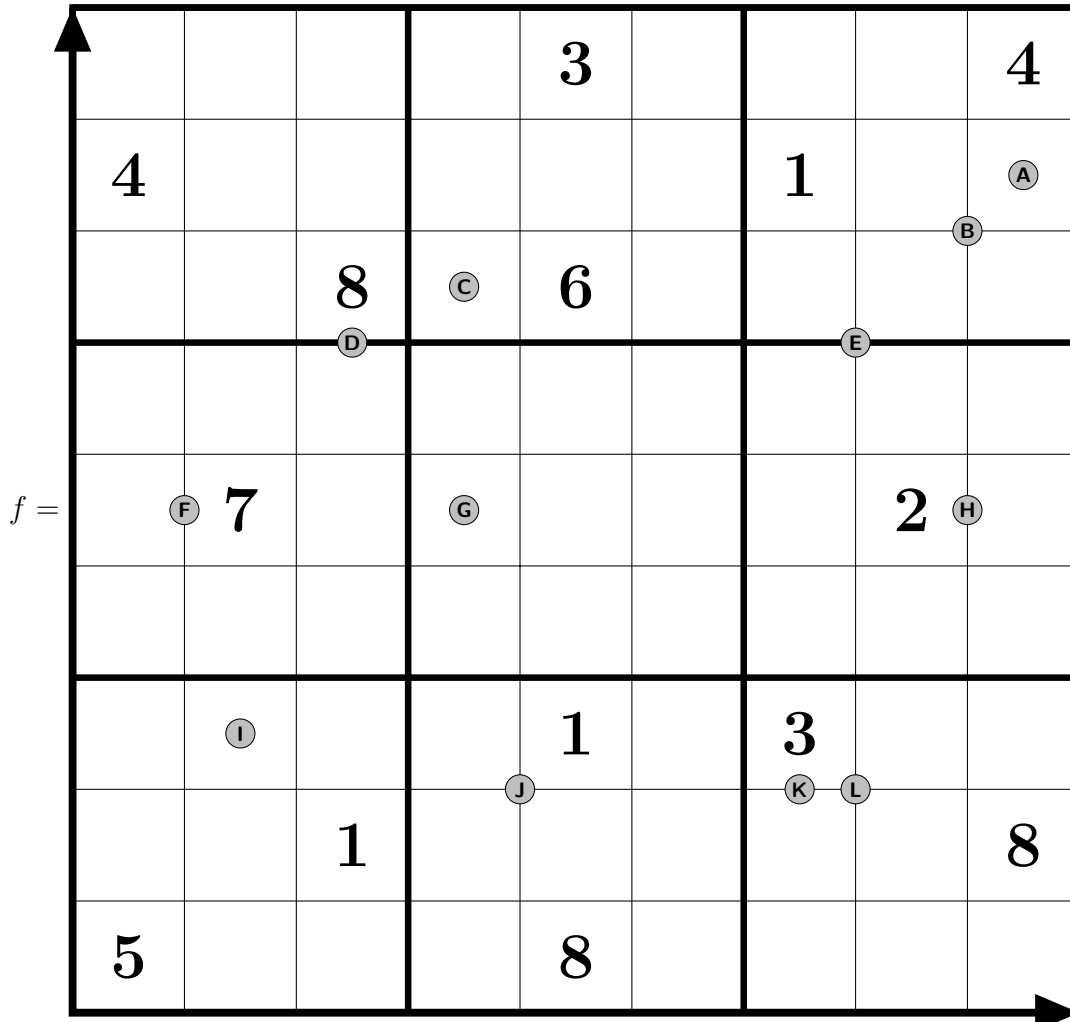


Puzzle 3: The Sudoku



by Jonah Ostroff



- | | | |
|--------------------------|--------------------------|--------------------------|
| $f_{yy}(\mathbf{A}) < 0$ | $f_{xy}(\mathbf{B}) = 0$ | $f_{xx}(\mathbf{C}) = 0$ |
| $f_y(\mathbf{D}) < 0$ | $f_{xy}(\mathbf{E}) = 0$ | $f_x(\mathbf{F}) < 0$ |
| $f_{yy}(\mathbf{G}) = 0$ | $f_x(\mathbf{H}) < 0$ | $f_{xx}(\mathbf{I}) = 0$ |
| $f_{xy}(\mathbf{J}) > 0$ | $f_y(\mathbf{K}) > 0$ | $f_{xy}(\mathbf{L}) > 0$ |

After solving the puzzle above, decipher the codeword below.

17624	72184	84258
69326	81539	47369
43813	34695	61924

The third thing you should know about the Secret Multivariable Puzzle Challenge is that every puzzle except the very last one has a single-word answer. The answer is usually an English word, but it might be a proper noun. In order to solve the final puzzle, you'll need the answers to all the other puzzles.