

Puzzle 1: The Traces



by Jonah Ostroff

Here are some mysterious equations.

A: $2(z^2 - y)(x + 1) = 1$

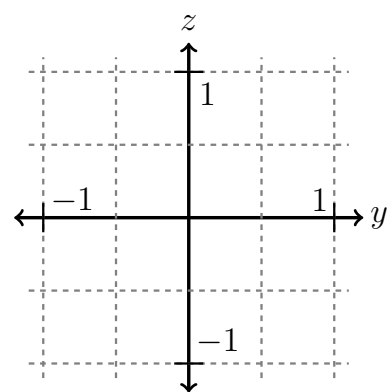
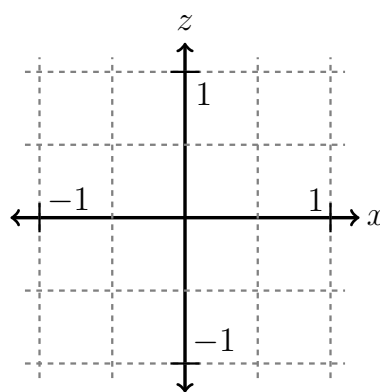
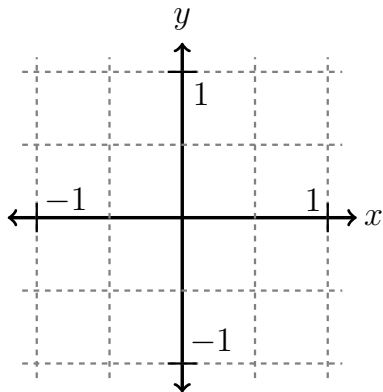
B: $y(y + 2x^2 - 1) = z(y + 1)$

C: $(2y - 1)^2(2y + 1)^2 + z = x$

D: $(y - 2x + z^3 - 7)(y - x^2) = 0$

E: $yz(2y - 1)(2y + 1) = x$

And here are some helpful axes.



Please decode the following message.

Cx1 Bz0 Az1 Bx0 Cz0 Dz2
Dy7 Cx0 By1 Ez2 Ey0 Ax0

*The first thing you should know about the Secret Multivariable Puzzle Challenge is that you won't be able to find all of the puzzles just yet. As of Monday, March 28th, **The Traces** is the only available puzzle. More puzzles will be hidden in various places throughout the quarter as we cover more material. If you solve the puzzle, great! You'll find out what to do with the answer later.*

*Also, just to get this out of the way: you **may** work as a team with other Math 126 students.*