Math Foundations for ML

10-606

Course page

- https://www.cs.cmu.edu/~ggordon/10606s22/syllabus-and-lectureoutline.html
- Anyone with an Andrew ID can access all course materials starting from there
 - First step: click on signup link for Piazza

(*, 4) (x, y, z, w) x, y, z, w & S ((4,1,27), (5,57) Slatter 6 411,2,5,5,5,1,2,1,27 $X \times Y =$ {(x,y) | xeX, ye 13 = (xxy)xZ [auto flattem] X x (4 x 2) XXXXX

 $5_{PP} \propto \chi = \phi = 53$ 213 64 22,334 y = 21,2,33 22,33 C \$ 4 4 what is XXY? 9 8. 200, 3. { (x,y) | x e X, y e Y) a lesson to the second of the 5 size 0.3 = 0 3 + 233 Set every type and an element set of subsets of union 2
inta,
cher xb LISP CONS 64 517 5 CH 5175? void main (int organ char * agres) char * b interes o paintes

Ploat square (Ploat X) { return X ** 2; Float -> float "R->R" anonymoss x XX; R, Y= R-3x2+X9=R 3x2 + x4 lambda X: X**2

Exercise: anonymous functions [2** 6- x in range (3)] and comprehensions

Suppose F(x) 8(y) Define avongueurs fin: takes x, y returns f(x)g(y) Assign to variable t Up in list comprehension

Make a 3x3 makix as a list of lists

Make a 3x3 makix as a 1st 201,23 S. x, y e 20,1,23