2/22/18

This statement is a lie

P(n,r) = n: 2 ordered lists (N-r)!

(Cn,r) = m: (n-r):r: lists fissets

How many 3-letter sequences can be made from the letters

q, u, a, c, k? P(5,3)

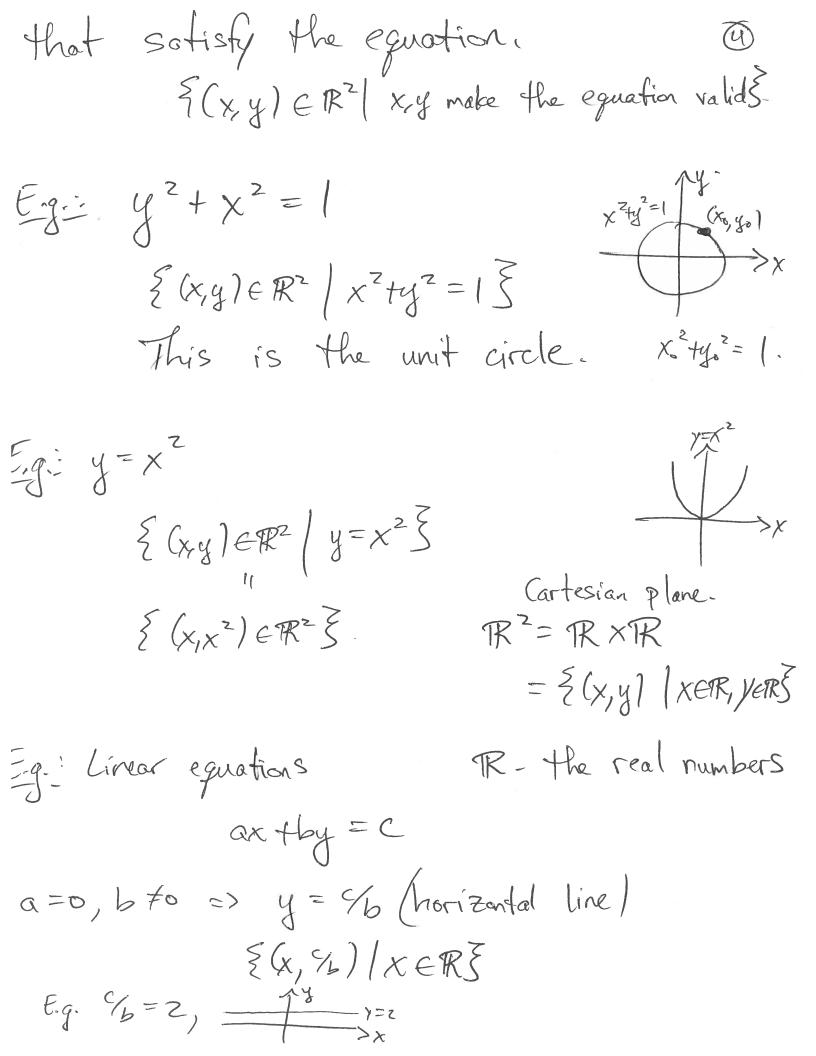
How many ways are there to choose of marbles from a bag with 8 marbles? E.g:

C(8,4)

A= & Dirt, Johan, Frans, Sarie) B= { Frans, Sorie, Tina, & Klaas, Henrikas C= EFrans, Hanss M-inter-section n (An(Buc)) U-union BUC = & Frans, Sarie, Tina, Klaas, Hanrika, Hanss An (Buc) = { Frans, Sarie} n(An(Buc)) = 2.ALBORE ALBORACE ACABACT A' - the complement of A in something SIA = \(\frac{2}{3}, 4\frac{2}{5}, A = \(\frac{2}{1}, 2\frac{2}{5} \)
SIA = \(\frac{2}{3}, 4\frac{2}{5} \)

S, ASS, BSS (AnB) = S (AnB) 5= {1,7,3,4,5-3 A= {1,2,3} B= {3,4} AnB = {3} 3 Systems of Linear Equations Matrices Defin: A linear equation in two unknowns is an equation of the form ax + by = ca, beth, not both zero-

zef": The graph of an equation in two variables is the set of all pairs of real numbers, (x,y)



b=0, a
$$\neq 0$$
 $ax = c \Rightarrow x = \%a$ (vertical line)

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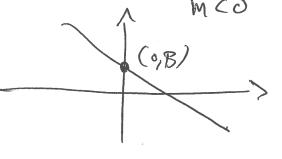
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M 70 (0,8)



Deft: A system of two linear equations in 2 unknowns is a 6 Def": A pair of linear equations $a_i x + b_i y = c_i$ $Q_2X + b_2y = C_2$. A solution to a system is a pair of real numbers, (xo, yo) such that a, Xo +b, yo = C, azxo +by yo = G This is to say that (xo, yo) is an element of both sets { (x,y) | a,x+b,y=c, } = graph of first and Elxy11 arx+lay= GE graph of The second linear tion. that is, (50 (x, yo) lies on the intersection of these 2