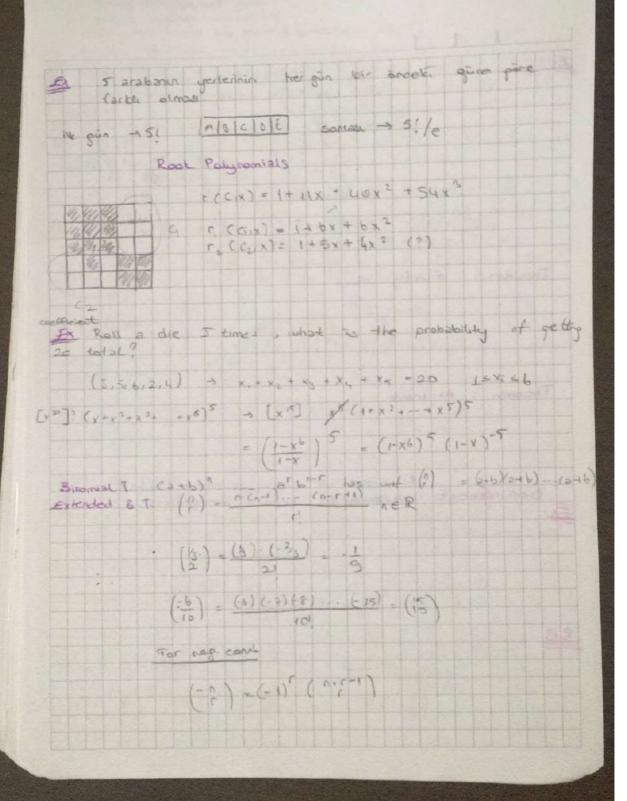
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| E1: 0 cond. 1 = 0: 15 coloto |
|---|
| |
| $ \begin{array}{c} (5/2^{\binom{1}{2}} - (5)2^{\binom{1}{2}}) + (\frac{5}{2})2^{\binom{1}{2}} - (\frac{5}{3})2^{\binom{1}{2}}) + (\frac{5}{4})1 - (\frac{5}{3})1 \\ = 2^{\binom{1}{2}} - 5 2^{\binom{1}{2}} + 10 2^{\frac{1}{2}} - 10 2 + 5 - 1 \end{array} $ |
| Theorem: Ewictly in |
| Exactly 2? |
| 10 = S2 = S2 - (7) S1 + (7) S4 - (5) S5 |
| Theorem: At least |
| 3 0 14 least 2? |
| $L_2 = S_3 - (\frac{2}{3})S_3 + (\frac{2}{3})S_4 - (\frac{4}{3})S_5$ But suratura yet we by suraturatur highirini |
| Demangement tutturamadigimiz kosulds derangement |
| N = So - S, + S, - S3 + S18 |
| $ X = S_0 - S_1 + S_2 - S_3 + \dots + S_1 \neq \dots + $ |
| 813 41 (1-1+1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1 |
| 24 = 8,8 - ≈ 9 |
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| | | | ashinck. | Licelender |
|--|---|------------|-----------------------------|----------------|
| general formula 13 | (12+1-1) [| = (++ | -1)! | |
| | C (n+r-1 | , () | | |
| Ex 20 kinds of donu | to There are | at leas | t a dozen | of each kind. |
| XXXXX 11/11 XX 1 C (20+19, 19) | 1)1/ x x x 1101 | C C 3 5, 1 | 0) | |
| Dumber of Solutions of | or an Eaula | tion | | C12 K10 |
| non-negative > C C15. positive > X = X+1, X2 X1+X2+-+X6 | (O) = X ₂ +1 | XIT | C C15, 9) | 5 +X6 + X7 = 9 |
| Ex: 1 have 10 white | balls and | 1 | 1 1/1 1 1/ | 1/111 |
| own ways can I distribute balls to these | ibute my | | c (10+3 |) = ((13,5) |
| Ex. How many ways from | | | 11.7) = C(| |
| | (4) E | 12! not (| 13e from (21 12) to (413 | 2) to (3,2) |
| 2K 9 01 29 63 | SR. | C(11,14 |)- ((4,2) | · C(un) |
| (0,0) | | | 270 | edel of s |
| Ex: third type of move | is allowed | 01 | D = 1U+1 | R |
| D + 6R + 3U 20 + 5R + 2U 30 + UR + U UD + 3R + OU | → ('E) ('Y) ('Y) ('Y) ('Y) ('Y) ('Y) ('Y) ('Y | | | |
| | + BNJWer | | | |

(5)(D-(5)(3) 2(x-1) 2 (2x-1) - 2(2x-1)



| , , , |
|--|
| 15 Apwers on 5 shelves = |
| E S, + S, + S3 + S4 + S5 = 15 1 = 1 = 3 1 = x = 4 |
| 5 + 5, + 03 + 04 + 05 |
| \$ 3 3 5 2 3 3 4 5 4 5 5 = 10 x: 53 |
| 2 15 71 4) /5 6 5) = 0 |
| S. 5(14), s, = (7 X &), Sz = (2) (4), (50, 54, 55) = 5 |
| (5)(4)-(5)(4)+(5)(4) |
| |
| # How many integers, are not chursible by 35, or 7? |
| 8 45 19 1057) (-0) |
| 75-(35+35+35)+(35+35+35)-(75) |
| 13 7 9 / 15 21 35 / 105 / |
| 75 -50 + 10 - 0 = 35 |
| Exactly m - At least m |
| a set the support tool, 2) to get them |
| En 10 prices for 4 student, we want fonly 2) to get them |
| = 13 18 + 19 15 E2 |
| 22 - 32 U 123 U 124 X1 + X2 + S3 + X4 = 10 |
| 32 = (4) 2'0, 53 = (3 × 3) 1'0 126 5 4 |
| |
| shoet 2 20000000 |
| shoet 36 2 x 2 x 2 x 2 = 210 |
| |
| In Deal 13 cords from 52 cord deck from each suff? probability of or least one cord from each suff? |
| probability of a resident of top, b, \$, \$, \$) |
| C,= no 0, c2 = no 0, G= no 50, G= no 0 |
| |
| + So = (53) Prob = S-5, +52 +53 |
| - 3 = (4)(93) |
| |
| + Sz= (2) (3) |
| Ls = (9)(3) |
| |
| ×4=0 |

~ NICLUSION - EXCLUSION ~

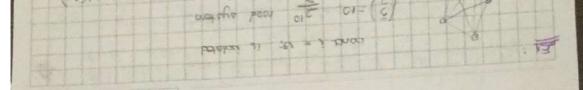
| 8.5 |
|---|
| X1+X2 @X3 +X4 =18 05154 X 57 |
| +2 => N = 50 - 51 + 52 + S2 + S4 3.8-24718 |
| (4)(21) - (4) (18-8) + (4) (10-8) - 0 + 0 - 146=32>18 |
| (3/3) (1/3/4/(3/ |
| 8.9 The w, because, no wife one her husband |
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| 经验证的 医多种性 医抗性 医性性 医性性性 医性性性 医性性性 |
| $S_{1} = \{ (6) \}_{2}^{1} = \{ (6) \}_{2}^{2} = \{ $ |
| Si= (w, h) -2101 (6) +(6)2471 -(6)2561 -(6)2551 |
| S, = (w, h)(w, m) - 2.291(5) |
| 810 . So = (5) = 10 > May farkly yol var? |
| · Syd var mi yok mu? |
| pardient |
| EX DISCRETEMATHROCKS (have no consecutive pairs) |
| DISCRETMANOK (12) STATETHER SCRET (5) |
| |
| + So = 12222 +176/25 - Si = SS, CCi -(2) 16! 124 |
| + 5. = cs and ss+EP + (2) 15 1/2 |
| - S3 = SS-CC+RR, (3) 141/2 |
| - ST = - F1 12!/2° |
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| | |
| gdc (2,6) = gdc 1 | (0,3) |
| gdo Gaibl + gde | |
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| En gac (960,500) | 1 500 40 |
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| Copmeness | |
| Relatively Prime (Co-Pr | (me) |
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| | Ex (24.45) |
| | |
| Theorem , | |
| Theorem | if and only if gdc (aib) c |
| | if and only if gdc (aib) c |
| | |
| 9de (14,70) = 14 | > 14x+70y=14 (14) is the imaliest integer! |
| | 14x + 709 = 28 |
| | |
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| Given in thems and | a consider the state of |
| at least one contain | ver with 1 101 rens! |
| | 13 + x 13+ = X+1 |
| 6.7 1.2 2 | _ [10] 1. |
| Ex [7] =[1373] = 2 | , Ex: 14/7 2 Hens |
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| ex in a group of peg | ale , there are two people who have |
| in identical number | of Arends within the group. |
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| | A people (Hems) pigeon |
| 1, 1, 1 | 100 T 12 017 1000 |
| | each person [12, , n=1] friend |
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| | 9-1 |
| | |

trivial: tim depistentin o'a est alliqui costim

[x0] (x6+x++x8+-)6 [x4] (1-x) = (1,1,1,1...) ~ THE GRAPH THEORY ADD APPLICATIONS ~ ~ Properities ~ The degre | d(V) Vinumber of incident edges self-loop about for Q'in degree (1) Proposition The sum of the degrees of a graph G(VIE) equals 2/E/= 2m (true) Corollary The number of vertices of odd is even Christian) Complete Kn -> B(n,2) -> n (n+1) gossible edge number Ky = 43 = 6/ Ks = 54 = 100 K-legalor: A simple graph with vertices of equal degree & Corolly The complete graph Kn is (n-1) regular 2 Espartite: V= V, UV2 Cthere is no edge between 4-4 Complete bipartity: one where all edge between 4-1/2 trail i walk with all different edges of edges () 01.02 path walk with all different nodes (and here edges) directed graph (digraph) all edge top a direction E(Vs/VE) Vs - source node / Vet) terminal node) in degree did(V), but degree don't (V)

A graph is balanced if din(V) = dour (V) for all nodes



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1. Define universal set sul 2 befine conditions → c; → t Julite the formula and some → So+S,+Jz+...+Se 05×57 N = S = S, + S, + S3 + S4 S1 = N(C1)+N(C2)+- S2 = N(CK2)+N(C2K2)+...+ S1 = x, 1x2 1x3 + x4 = 10 S2 = (x1+8) + (x2+8) + x3+x4 = 18 52 = Xi+ 12+ x2 + x4 = 2 (448) Si = x1+ x2+ x2 + x4 = 12 8 = 10 Sp - (4)(5) S1 = (12) (4) N + 50 - 5, + 5, - 5, + 54 (b)(3) - (4)(3) + (5)(3) -0 +0 A (8.8) I LL: All sesting possible => 11! 2 Ci : Wi sits next hi Vi 15 x 6 6 +6 3. N = 55-5,+52-53+54-5+36 2 11. S. = S2 - (4) NCC) = 2-101 NCC) = 22 8! Si = (6) 2 10! Di = (8) 22 9! N = n! - (6) 210! + (6) 229 - (6) 238+ (6) 247! - (6) 276! + (6) 265! N = 5 (1) 2 (1-1)! Euler's phi function for next 10,2 let B(n) be the positive integers m , where 15 m = n and got (n.m) = L O(n) = [number of partice in smaller than n, also relative prime to n] £ Q(12) = \[1 = 9.11] = 4 961=? n= 1, e1 + 1, 12, 15 - 2 to

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| ALC: U | FICUL | F OF NATHENATICAL | (Mode (1672) | A CARL THE |
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| 5% | | | | |
| | Theorem | VOCT [1+3+5+-+6 | 20-1) - 02] | 表面型是用品 处 |
| | | | | |
| | Proof: | 1. 1=12 | / | |
| | | 2 0=K | | |
| | | 1+3+ +(24-1) | = 12 . | BREE BE |
| | 原基圆型 | 3. n=+41 | | |
| | | 1+34 + 62-1)+ | (DE+1) = (E+1)2 : | +2+2K+1 |
| | | 1 k2 | | |
| | | 4- | | MERKER |
| | | V2 + D4 4 | 1 = +2+2++1 | / |
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| The : | Vne2 | azu BijenIn | 31+61] | |
| | | | | |
| Proof | : 1 n=14 | n=32+8·1=1411 | | |
| | 2. 0=16 | n = 32+87 CE | -2,7=6) | |
| | 3. n=kt | | | |
| | 14 | 27,5 K+1 = K - | (3.5) + (8.2) | = 3(0-5) + 8(6+ |
| | | | | |
| | if | b31 k+1 = k - | - 8 + 3.3 = 30 | 2+3) + 8 (6-1) |
| 91 | | 00+80 | | |
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| Stro | ng thebetto | or (Alternative Form) | | |
| Recu | isive Defin | ifica | Salah B Jane | A 19 19 19 19 19 19 19 19 19 19 19 19 19 |
| D | | | | |
| | | T(n) = 20-1 | | |
| | ALL DE | | | |
| | Proof ! | 1. 1-1 2'-1=1 | | |
| | Pros # 1 | nd Hyp. 2. EZI TKE | 1 = 21-1 | |
| | Proof 1 | 3. For k+1, | $1 = 2^k - 1$ | |
| | Proof 1 | 3. For k+1, T(k+1) = 2 T(k) +1 | | |
| | Proof i | 3. For k+1, | | |
| | l. | 3. For k+1, T(k+1) = 2 T(k) +1 | | |
| Di | VISION | 3. For k+1, T(k+1) = 2 T(k) +1 2x+1-1 = 2(2k-1) |)+1 = 2.24-1 | |
| Di 1+ | VISION € 2 | and $b \neq 0$, we s |)+1 = 2.2t-1 | es a, bla |
| Di 1+ | VISION € 2 | and $b \neq 0$, we s |)+1 = 2.2t-1 | les a , bla |
| D1 1+ 1+ 1+ | VISION 2,6 € 2 | and $b \neq 0$, we say $a = b$ |)+1 = 2.24-1 | |
| D1 1+ 1+ 1+ | VISION 2,6 € 2 | and $b \neq 0$, we say $a = b$ |)+1 = 2.24-1 | |
| D1 1+ 1+ 1+ | VISION 2,6 € 2 | and $b \neq 0$, we say $a = b$ |)+1 = 2.24-1 | |
| D1 1+ 1+ 1+ | VISION = 2 + 1 + 1 + 2 + 1 + | and $b \neq 0$, we s |)+1 = 2.24-1 | 9.1 62 |

Salt and Last Loss the line (72)

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| & Invose PV7P 7 | PATE TO |
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| They are | e the dual of each other |
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| [p/(q/r)]^d = p/(q/ | |
| $\wedge \rightarrow \vee$, $\vee \rightarrow \wedge$, $\downarrow \leftarrow \rightarrow \uparrow \rightarrow \uparrow$ | |
| Pagengarp Coontrag | positive) |
| p -> 9 converse 9 -> p | |
| 7p -> 79 inverse p-> 9 | |
| p > (q + r) p > | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| K PROOF | |
| (-pv-9) →(rAs) | |
| 175 | |
| 7t | 海里是所到美国洲岛岛自己岛岛 |
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| Steps | Reason |
| 1. (-pv-9) -> (rAs) | Premise |
| 2. 176 | Premise |
| 3, 76 | Premise |
| 14 70 | Step 2 13 and Nodus Tollers |
| (200) (+ (00) + (| Step 1 and DeMorgan's |
| 6. + (AS) -> > (PAG) | Step 5 and Contrapositive |
| 3 7 (1 AS) 7 (p A9) | Stop 6 and Dauble negation |
| 8 (75 V75) -(P/19) | Step 7 and DeHorgan's |
| 3. (-r Vas) | Step 4 and Rule of disquireline Amplife |
| 10. (p n q) | Step 8, 9 and Mod Poneis cotton Step 10 and Conjunctive Simplification |

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generic function

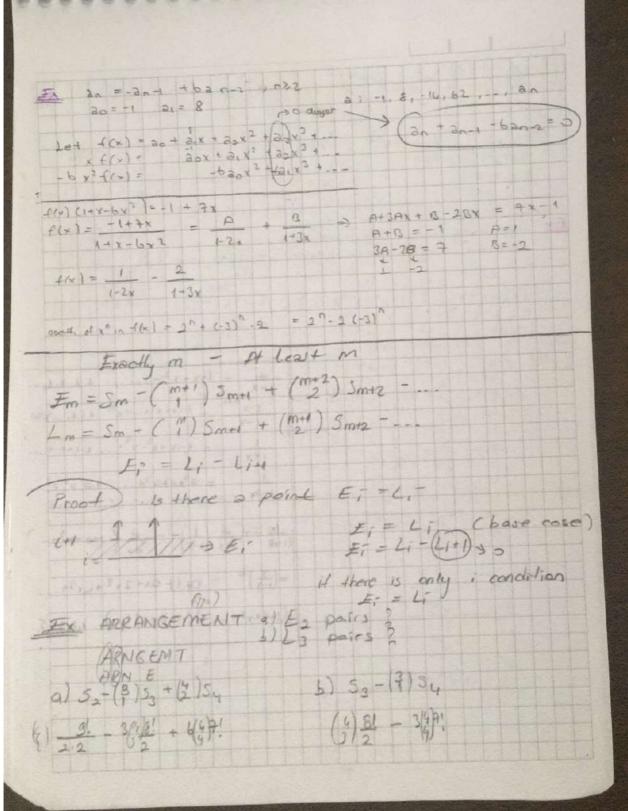
| | 10-46) 5 1 C+x | (2)(3)-(2)(3)-(2)(3) |
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| (1-x) | (8) 1 (7) | 175 |
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| | (1) (2) (3) (| 13 |
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| | 8 72 47 - | 5 C: 19:36 |
| 1.+X2+'XF =2E | 81.33 | |
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| (1+x+x2+) | | |
| / / / | (1) | 1-x10 |
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| F 101 / 11/ 11 | f) (1-x10) | _ = 1+x+x2 1,1,4,d, |
| [x 55] (1-x) (1-x | | X |
| 7-1 ×29 1 | 12 | 1-x 0+1 _ 1+x+x1+ -+x 1 4,1,1,1 -1,00. |
| ×30 (5 | | 1-1 |
| × 25 ×10 | 1 4 | 1 = 1-x+x ¹ -x ² + (-1+1-1) |
| × 20 × 15 | (-1) | |
| 2 75 × 10 | 1 | 17X |
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| 4 | the second secon | 2 = d (1) = d (1+x+x2+) |
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| , 15 × | | 112 |
| 10 | -(| 1-x)2 = 0+1+2x+3+2+4x3+ |
| 14 | | |
| | | +x+x2+_) (1+ X+x2+) 1,2,3,4,5, |
| | (30) | 0 4 2 5 5 6 2 2 2 2 2 2 2 2 |
| | (x) /-/) | |
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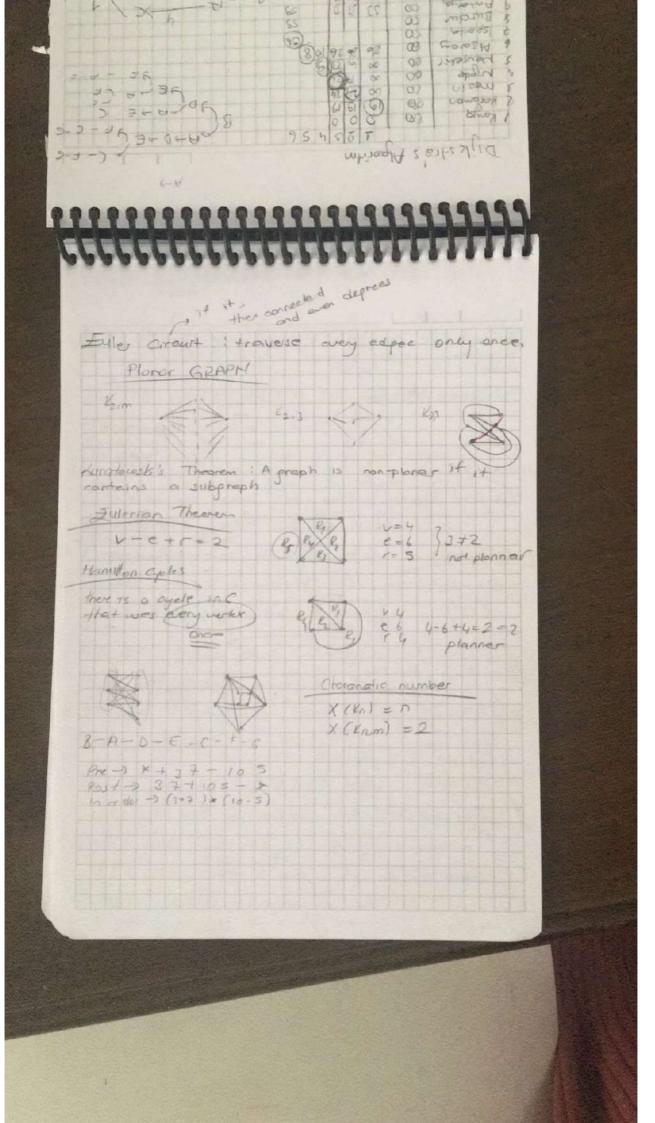
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| - When x is " + 1416 - | TELE Statement |
|--|--|
| Tax > for as reast one x. "For some x / p(x)" -> Tx p | (x) |
| ∀x → for every x. ★ ∃ = ¬∀ , ∀ = ¬∃ | p(x,y) => \tau \tay p(x,y) |
| ~ RULE OF INFEREN | CE ~ |
| P p \rightarrow 9 (modus Porens) 9 | P39 (modus Tallens) |
| P=9 (Pule of Syllogism) | Pg (Rule of Conjuction) |
| PV9 (Rule of disjunctive) 7p Syllogism | P (Rule of disjunction) pv9 Amplification |
| PA9 (Rule of Conjunctive Simplification) | -p -> Fo (Rule of Contradiction) |
| PAG POCGOTO (The rule | of Conditional Proof |
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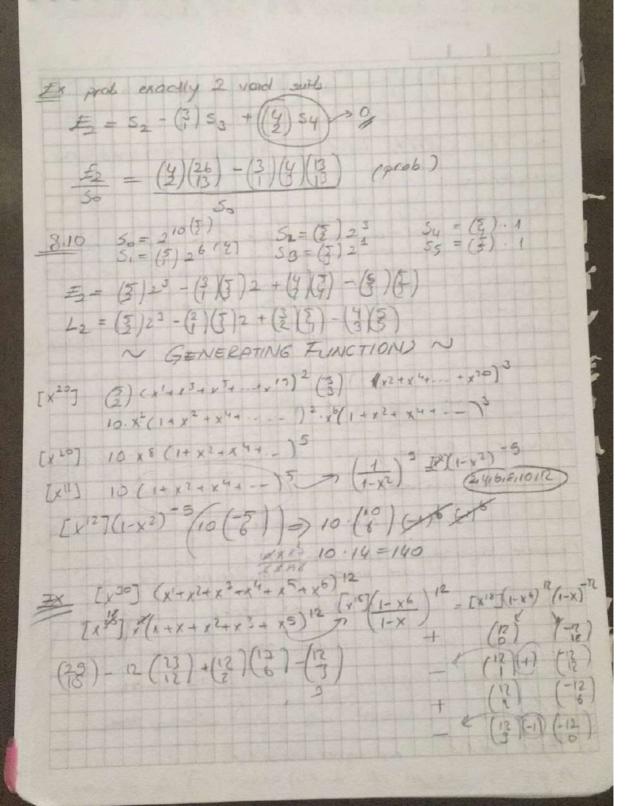
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~ NOTSINA - EXCLUSION ~





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| 0 4 4 4 5 | 2 |
| 2 | |
| 0-1 0-7-2 0-1-2-8-5 | |
| 0-7-6 | |

-1777 = (x-1) [mx] trivial: tem degraventin 019 est alluga course locident | x incident to a-b Adjacent hadgacent to a cie Undirected - Direct = (a,b) x = (c, 9) e=19,63=96,99 * (Only and subgraph is there which spanning and induced ter this insident edges all vertices (remove nothing) Complement B = = VIE> 1V1-7 15 = 6 (e) in IEIE? Kn total A-R-7) 2 Km, n Look like? K3,3 Ec= Ex-Ec | Kmin = Km/Kn

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| $(x+y)^n = \binom{n}{0} x^n$ | | 7 | 111 | | | |
| = 2 (2 | 1) x y n-z | | | | OF L | |
| K=0 | | | | | | |
| 2: (2a-3b) + | spefficient s | 4 25 62 | | | | |
| (7)(20) (+ | 36)2 = (3 | 122(-1) | 35 62 | | | |
| (2)(3) | CO | efficient | | 100 | | |
| × (0)+(0)+ -+(0 |) = 2R | | | | | |
| (8) 0/ | 1 = 10 -3 | 24 17-4 | | | | |
| n=4 1 . 4 . 6 - 4 . | 5-1 = 32 | -> 25 n= | 5 | | | |
| * (0) - (0) + + | (-1) (6) | = 0 | | | | |
| n=4 1-4+6-4 | | | | | | |
| n=4 1-476 4 n=5 1-5-10-10 | +5-1=0 | | | | | |
| The Hullinominal T | | | | | | |
| (x1+x2++x1) " | | Chairman of | Y PI Y PL | - XIA. | 7 | |
| (x++x2++x+) | 7 the coes | nicioni o | | | | |
| = 11 | Y, M X2 | 172 X+ | | | | |
| oper of | leient | | | apple of | | |
| | | | | | | 1 |
| Combination with | | 12.6,4 | | | waho se | |
| FYI 7 people, 4 | different bos | , how m. | ing Hem | are p | 11212 | |
| Chot who purch | | | | | | |
| aaaabbb ->tu | 2, 36 Then | are same | options | bet ser | | |
| 2020202 4 | | | | | | |
| | | | | As a second second second | | 5 |

| CHI Country DISCRETE MATHEMATICS | |
|----------------------------------|---|
| 1. The Rules of Sum and Produ | of I have been been been been been been been be |
| The Rule of Sum ilf a first | task can be performed in m |
| ways while a second task ca | a be persposed in a ways then |
| many more a second task to | 1 00 per former 10 2011 000 04 |
| performing either task can be | accompliance in any one |
| man ways. | L. Lenten |
| The luke of Product 14 a | brocedure can be procen |
| down into first and second | stages , and it there are in |
| possible outcomes for the fu | st shage and it for each |
| of these outcomes there the | the site is possible outcomes |
| for the second stage; then | the total procedure can |
| be carried out, in the desig | noted order, in (m) ways |
| 2 Permutations | |
| al Ex Hou | u many ways can we arrange the |
| PCair) = letter of | the word MASSASAUGA ? |
| (U-L) | 01 211 20 20 |
| 4 | 131 tagether 31 |
| 三长引起还是引来性患者可疑的动脉 | |
| then 11/2 is an integer. It | |
| | |
| EX CO. | Lus men - 2 |
| \$ 5! W, | women 3 3! |
| External s | 74. |
| | JH2 21:3! |
| 3 4 | |
| | |
| 3 Combinations (select) IN | 1 8 people of 4 team |
| | (2)(2)(2)(2) |
| C(0,0) = (0,0),01 | 14 |
| (u-c) (i | there is no |
| | |
| C(nit) = P(nit)/1! 6 | · P people - A.C.C.D teams |
| | =(8)(2)(4)(3) |
| 医萨罗里尼亚克里克克里亚西亚里 | |
| | = 3.7 6.5 4.3 2.1 - 81 |
| 美国家的政治的企业的企业的企业的企业 | 2! 2! 2! 2! 2! (2!) |
| 彩布埃里斯多摩里图图里斯斯斯 | 经验数据基础标题的现在分词形式 |