3 43 7

$$C_{7} = \frac{n!}{k!(n-k)!} = \frac{7!}{3! \cdot 4!} = \frac{4! \cdot 5 \cdot 6 \cdot 7}{3! \cdot 4!} = \frac{35}{35}$$

6.1.22

a) 3 rbozganu

- согетание т.к. не важен порядок

-без повт., т.к. один уветок береш один раз

08:04.20

$$C_{16}^3 = \frac{16!}{3!(16-3)!} = \frac{11(.15.16)}{1.2.3} = 560$$

5) 6 abozque ognow ybema

$$C_{9}^{6} + C_{7}^{6} = \frac{9!}{6!(9-6)!} + \frac{7!}{6!(7-6)!} = \frac{7 \cdot 8 \cdot 9}{1 \cdot 3 \cdot 3} + \frac{7}{1} = 84 + 7 = 84 +$$

=91

в) У красные гвоздики и з розовые

- coremanue

-без повториний

$$C_{8}^{4} + C_{7}^{3} = 4! \frac{9!}{(8-4)!} = \frac{6 \cdot 7 \cdot 8 \cdot 9}{2 \cdot 3 \cdot 4} = 188 \cdot 126$$

$$C_{7}^{3} = \frac{7!}{3!(7-3)!} = \frac{5 \cdot 6 \cdot 7}{2 \cdot 3} = 35$$

6.1.29
E 2,4,53

pazuemene c nobmoperusami

$$A_3^2 = 3^2 = 8$$

coremania c nobmoperusami

 $C_2^3 = C_{n+k-1} = C_4^2 = 2! (4-2)! = \frac{3\cdot4}{2} = 6$
6.1.30
I bugob nopmob.

1) 3 mopma

Sez nobmoperus ?

- coremania

 $C_4^3 = \frac{56\cdot7}{2\cdot3} = \frac{56\cdot7}{$

& 2) 3 Buga mopmob, bezomb 7 mopmob - с повторением - coremanuey $\overline{C}_3^{2} = \overline{C}_{3+2-1}^{2} = \overline{C}_{3}^{2} = \overline{3!} = \frac{8.9}{2} = \frac{36}{36}$ 6.1.31 9 manceir, 5 renoben, mapon na 1-on mance C 2 no 9 maner (8) - pazue uzenue m. K Baixno, Kmo uje buxogum - C no Bropeniani A8 = n = 85 = 32768 6.1.32 cuebo-Kausumaryua Sykb DATA AAI) APA Hasopa P3 = 3! = 6 He your 2mo Syxba "A" nobm- 2 paga P3 (2,1) = 3! = 3! 2) MISSISSIPPI

P11(1, 4,4,2) = n1! -n2! -n3! - n4! = 5.6.7.8.9.10.41 = 5-7-8-10-11=34650 n=11 n,=1 12=4 13=4 h4 = 2