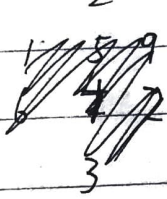


Home work 2

1. amount is $\frac{n(n^2+1)}{2}$

2. $\frac{3(3^2+1)}{2} = 15$



8	1	6
3	5	7
4	9	2

3. $\frac{4(4^2+1)}{2} = 2 \cdot 17 = 34$

9 6 3 14

4 15 10 5

14 1 8 11

7 12 13 2

4. $\frac{7(7^2+1)}{2} = 7 \cdot 25 = 175$

28 3 34 9 40 15 46

45 27 2 33 8 39 21

20 44 26 1 32 14 38

37 19 43 25 7 31 13

12 36 18 49 24 6 30

29 11 42 17 48 23 5

4 35 10 41 16 47 22

5. sample is $\{(1,2), (1,4), (1,6), (3,2), (3,4), (3,6), (5,2), (5,4), (5,6), (7,2), (7,4), (7,6)\}$

person A win is $(3,2), (5,2), (5,4), (7,2), (7,4), (7,6)$

probability is $\frac{6}{12} = \frac{1}{2}$