Exam 2

Combinatorics, Dave Bayer, March 6, 2014

Name: —————————————————————— **Uni:** ————————————
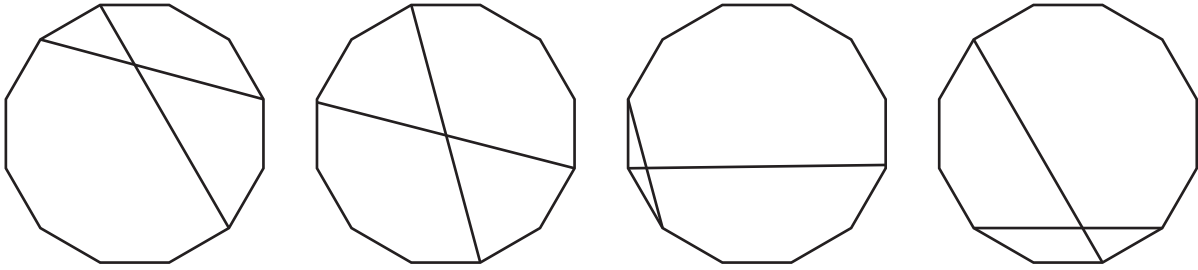
[1]	[2]	[3]	[4]	[5]	**Total**

If you need more that one page for a problem, clearly indicate on each page where to look next for your work.
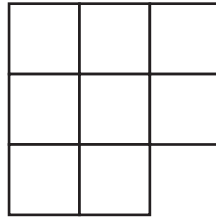
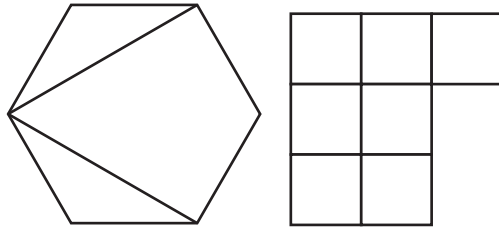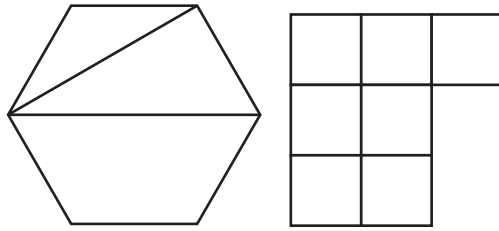[1] How many ways can a 12-gon be dissected into two pieces, neither of which is a triangle?
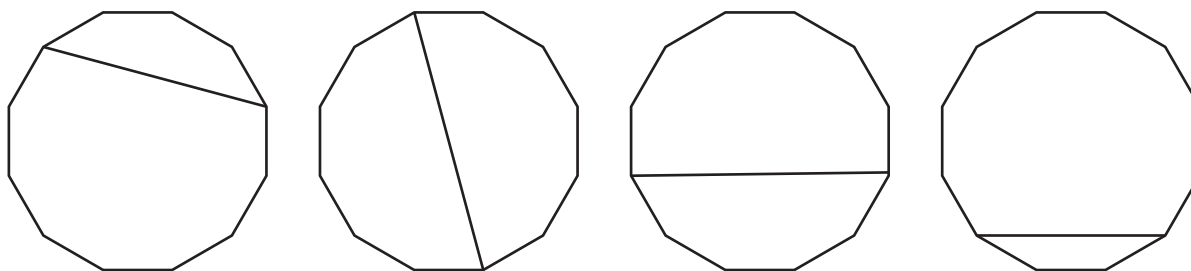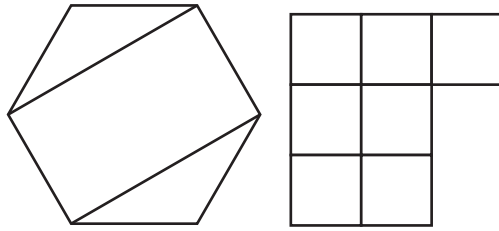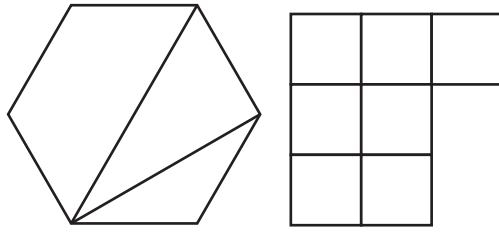
[2] How many ways can one draw two crossing interior edges, inside a 12-gon?

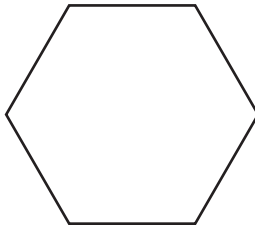[3] How many standard Young tableaux are there of the following shape?

[4] Translate each of the following hexagon dissections into standard Young tableaux.
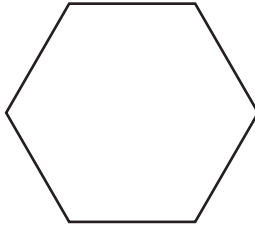
[5] Translate each of the following standard Young tableaux into hexagon dissections.
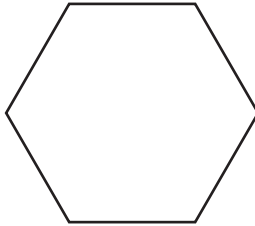
1	2	7
3	4	
5	6	

1	2	7
3	5	
4	6	

1	2	3
4	5	
6	7	

1	4	7
2	5	
3	6	