Lesson 1, September, 8, 2009 BMC - Elementary

Overview. This short introductory workshop followed the organizational meeting. The topic was constructing simple knots on the graphs. We discussed that a planar graph is something like a skeleton for a knot. Given a graph, the algorithm follows the steps:

- 1) Mark in the middles of the edges the self-crossings of the future knot.
- 2) Going along the edges, draw the path of the knot. Each time when you reach a crossing, you have to cross it.
- 3) Using a ,,hint", draw the knot, showing where the rope goes ,,over", and where it goes ,,under" itself.

The complete set of instructions, examples, tutorials can be found at <u>http://www.entrelacs.net</u>. Also check the book (suitable for interested parents, not kids [©]) : The Knot book, by Colin C. Adams, (page 51).

Enclosed are the examples considered in class.

Observations. The most difficult part for kids was to put the rope ,,over' and ,,under' on the drawing.

