Reasons

The present cycle of elementary problems appeared in *algebraic knot theory* [Vir85, Maz88, ViDr88] and *discrete geometry* [Whi89, Whi91, Pen92, PPW93, Ric93, Gai03, RSS04, AKS04] (this material is almost disjoint with [GSSS01] and other publications on this subject). These problems are studied in research mathematics not for a long time, so some open problems can be accessible to diligent high-school pupils and undegraduates (for some mathematicians this problem already became a subject of the first scientific contribution [Kva89, Gai03]). The unsolved problems are marked with a star.

To our opinion, the most interesting and non-trivial problems are the example of problem 6 [Bog, Bur, cp. [Gai03] and the infinite series from problem ???. The matrix from problem 8b gives a *non-trivial (and, possibly, knew) way of weaving baskets*!

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