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**Problems of the 6th South-Eastern European Mathematical Olympiad for University Students.  
(Olimpiada de Matematică a studenților din sud-estul Europei, SEEMOUS 2012.)**

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Summary: This note deals with the problems of the 6th South Eastern European Mathematical Olympiad for university students, SEEMOUS 2012, organized by the Union of Bulgarian Mathematicians in Blagoevgrad, Bulgaria, between March 6 and March 11, 2012.

*Classification:* U40 H60 I20

*Keywords:* determinants; dominated convergence theorem; eigenvalues; gamma function; Leibniz product rule