

Synthetic solution in geometry and GeoGebra

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Abstract

The contribution concerns the relationship between teaching mathematics and modern DGS software. Particularly we study the possibility of achieving classical synthetic solutions of geometric problems by help of GeoGebra. What problems are appropriate for this purpose and what are inappropriate? In which situations does GeoGebra really help the student to understand the problem and its solution and when is its use inefficient? Author's ideas and hypotheses were tested on a small group of students solving more difficult high school problems. Their activities were qualitatively assessed and results compared with author's assumptions.