Escenarios de aprendizaje para la solución de problemas apoyados con matemática dinámica.

ABSTRACT

Problem solving has been investigated in mathematics education for more than 60 years ago since the pioneering work of George Polya (Polya , 1965). His four step method: understand the problem , devise a plan , carry it out and look back , still apply as a general framework. In recent years the emergence of dynamic mathematics has scaffolded this and other methods of solving mathematical problems (Christou , Mousoulides , Pittalis & Pitta - Pantazi , 2005) , this has generated great interest in new ways of teaching and learning mathematics and in building dynamic learning scenarios to support the different stages of problem solving. A teaching-learning approach for problem based learning, based on the construction of dynamic learning scenarios and the notionof co-action is discussed and presented in this article.

KEYWORDS : Dynamic mathematics, GeoGebra, problem solving, Polya, education, mathematics

OBJETO DE ESTUDIO

La solución de problemas es un tema importante en la enseñanza y aprendizaje de las matemáticas. Los educadores y matemáticos George Pólya (1887-1985) y Alan H. Schoenfeld (1943-), con sus continuos e importantes aportes en el área han destacado dos aspectos que enfatizaremos en el Taller . El elemento integrador de diferentes áreas matemáticas y el aspecto formativo, en lo que tiene que ver con el desarrollo de habilidades creativas y estrategias heurísticas.