INTRODUCTION

METHODS

EDUCATIONAL CONTEXT WHERE WORK WITH HEM IS CARRIED OUT

CHARACTERISTICS OF HEM

BEFORE STARTING THE SURVEYS

ASSESSMENT OF THE EXPERIENCE

POSITIVES ASPECTS

NEGATIVES ASPECTS

INTERVIEWS WITH TEACHERS

HEM DIFFICULTIES

STUDENTS

ABOOUT PARTICIPANT OBSERVATION

RESULTS

CONCLUSIONS

They offer a great diversity of new resources to enrich the teaching and learning processes.

They thought it was POSITIVE

They brought consultations about exercises tested with GeoGebra at their homes.

They thought it was POSITIVE

Lack of time to interact with the material in advance.

They brought consultations about exercises tested with GeoGebra at their homes.

Lack of time to interact with the material in advance.

NEGATIVE DIFFERENT POSITIVE

INTERVIEWS WITH TEACHERS

With no significant differences

Educational goals achieved

1st Use of a computer tool for mathematical work.

3rd Familiarisation with Geogebra applets.

4th Understanding three-dimensional mathematical objects. Discussion of multiple strategies.

2nd Number of devices available. Time and attitudinal aspects.

To improve

Future

Focus on improvement variables – barriers found – work with mobile devices.

INCIDENT OF A HYPERMEDIA EDUCATIONAL MATERIAL ON THE TEACHING AND LEARNING OF MATHEMATICS

At the First-Year Course of Mathematics A of the School of Engineering at the National University of La Plata.

(HEM)

Based on the contents of the original theoretical and practical guide developed by teachers of the course, the following topics are dealt with: vectors; straight lines in space; and planes (eXeLearning program).

Assessment of the experience

Interpretation and understanding of contents or the lack thereof.

Interviews with two parts.

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Survey with six Mathematics A commissions with three parts.

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