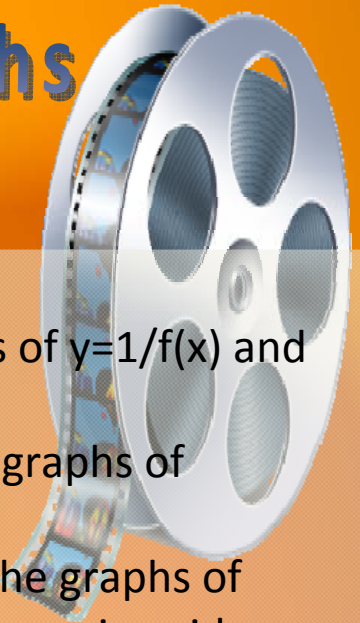


# Transformations of Graphs

## (C1 H2 Maths HBL)



### Lesson Description

An E-learning module on the sketching of the graphs of  $y=1/f(x)$  and  $y^2=f(x)$  given the graph of  $y=f(x)$  was produced to:

- Allows students to explore the key features of the graphs of  $y=1/f(x)$  and  $y^2=f(x)$  on their own
- Allows students to learn the process of sketching the graphs of  $y=1/f(x)$  and  $y^2=f(x)$  through step-by-step illustration using video clips at their own pace (able to repeat the lesson many times)
- Allows students to check their own understanding using "quiz/survey" features in Lectora (software that facilitates the production of e-learning module)

You can view the e-learning module at:

<http://www.hci.sg/studies/college/maths/math2010/index.html>

### Outcomes

Feedback from students has been very positive with 97.5% and 94.5% of respondents agreed that they are able to sketch the graphs of  $y=1/f(x)$  and  $y^2=f(x)$  respectively after going through the e-learning module. 61.7% of respondents agreed that learning to sketch the graphs of  $y=1/f(x)$  online is more effective than through lectures. 67.3% of respondents would like to have more such e-learning modules

Some comments from students:

The math videos are so well prepared and so well-thought of. Thank you teachers for putting so much effort to make us understand the concepts. (Kho Yong Xiang 10A12)

It was helpful because we could replay the videos over and over if we did not understand it the first time, a luxury that is not available to us during actual lectures. (Chee Sue Yin Joy 10A14)