

5th Six Weeks Precal Extra Credit Project Due April 4, 2008

Write a study guide that explains sine and cosine graphing. The guide should include an explanation of:

- Basic sine and cosine graphs, including key points, domain, range, amplitude and period.
- Amplitude change
- Period change
- Phase (horizontal) shifts
- Vertical shifts
- Formulas
- Drawing graphs based on equations
- Writing equations based on graphs
- Works cited page
- Optional: Graphing with a calculator including window & mode

Each bullet point above should have a separate page in your study guide.

Write clearly and concisely using drawings and graphs to explain concepts using step-by-step directions. Do not use conversational language; use formal language.

The study guide may be in the form of a booklet, pamphlet, or flash cards.

You will be graded on accuracy, clarity and creativity.

The project will count as a test grade.

Websites:

<http://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=86>

Use Last Gizmo: Translating and Scaling Sine and Cosine Functions - Activity A

Username: qawsedrftgyhujikol

Password: qawsedrftgyhujikolp

http://www.intmath.com/Trigonometric-graphs/1_Graphs-sine-cosine-amplitude.php

http://math.la.asu.edu/~walker/mat170/homework/sine_curves.htm