



Ms. Konstantopoulos's Classroom Newsletter

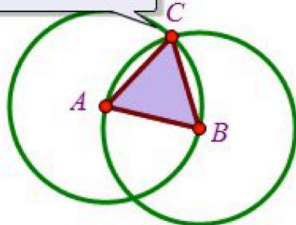
Technology Software: Geometer's Sketchpad

Prior to the start of the academic year, I am proud to announce our new technology software that has been installed in all of our computers, here at Hillside High School:

Geometer's Sketchpad.

This year students will be focusing extensively on Euclidean Geometry. Students will develop a clear understanding on certain properties of triangles and other geometric figures.

Intersection C is the intersection of $\odot BA$ and $\odot AB$.



Geometer's Sketchpad will enhance the student's learning by constructing visual representations of these figures. Prior to this software, students were manually constructing figures using a straight edge or a traditional compass. This approach was not effective and students were having difficulty creating accurate geometric shapes. **Geometer's Sketchpad** however, alleviates this problem, while strengthening the students' conceptual understanding.

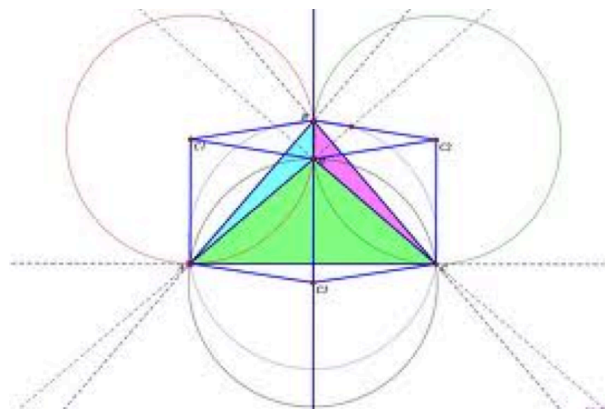


Math Content

Geometry

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From a societal standpoint, technology is essential in teaching and learning Mathematics. As a result, **Geometer's Sketchpad** will allow students to create figures and evaluate certain mathematical functions including measures of an angle, perpendicular lines, and midpoints. In addition, this software enables students to design various animations. This facilitates students in looking at these abstract concepts from a different perspective. Students then generate creativity and become innovative thinkers!

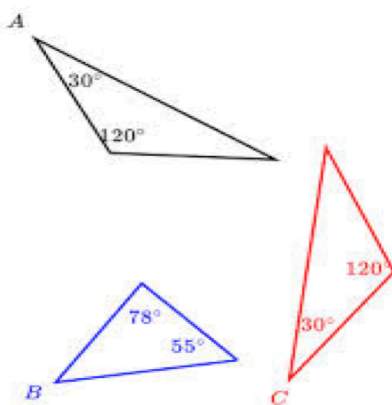


Khan Academy

This year teachers of the Mathematics Department will be using tutorials by **Khan Academy** during class lecture. **Khan Academy** is an educational website designed to provide access to free lessons in all academic areas.

Every Tuesdays and Thursdays during Geometry class, we will be looking at various tutorials on **Khan Academy**. This enhancing resource provides lessons with thorough examples of Mathematical concepts. Students have difficulty understanding these abstract notions. **Khan Academy** however, helps students grasp and overcome challenging problems. In addition, **Khan Academy** uses different colors to visually assist students with the distinction between two figures. For example, different colors are used to demonstrate congruent angles of corresponding triangles.

Which triangles are similar to triangle A?



In addition, this easily accessible resource also provides problems with helpful hints to guide the students in obtaining the correct answers. Students can also use **Khan Academy** on their own leisure at their own homes. Surprisingly, a username or account is not required!

This Week's Highlights

Monday

Introduction to Chapter 1 of congruent triangles.

Tuesday

Overview of Khan Academy and what resources are available.

Wednesday

Geometry lesson using Geometer's Sketchpad.

Thursday

Students will be working on their assignment

Friday

First Quiz on Chapter 1 and first Geometry assignment is due



Upcoming Events

Classroom Parent Open House Night

Tuesday, September 6, 7:00 P.M.

Ice Cream Social with the Faculty

Friday, September 9, 5 P.M.

School Fair

Thursday September 29, 6:30 P.M

Thank You Parents!

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