## **Geometry B Live Lesson Class**

#### U3L2 – Special Right Triangles (Ch. 8-2 in textbook)



**Middle School Math Department** 

# Agenda



1. Review topics and problems from Unit 3, Lesson 2.

2. Use the 2-column note system to take better notes in math class. Bring your math notebook and pen or pencil to each math LiveLesson class.

# **2-Column Notes Template**



- 1. Announcements/To Do's
- 2. School-Wide Learner Outcomes
- 3. LL Objectives
- 4. Vocabulary words
- 5. Problems
- 6. Summary (End of class)

- 1. Write down important details.
- 2. What are you going to work on this week?

- 4. Definitions (fill in as we go)
- 5. Steps to solving problems
- 6. 1 or 2 sentences about the LL class.

## **Reminders and To – Do's**



### Information

1. Complete 1 math lesson per day.

2. Check your WebMail every day

3. Be prepared to spend 4 - 6 hours per day on schoolwork.

4. Remind your Learning Coach to take daily attendance

### What to do

1. Go to your Planner in Connexus to find the math lesson for the day

2. Go to Connexus to find WebMail

3. Complete lessons for the day from your Planner. Do not get behind on lessons.

4. Have your Learning Coach log into Connexus daily.

## **Reminders and To – Do's**



#### Information

5. Go to the Message Board first for information about our math class.

6. Contact Mr. Elizondo for math questions.

Remember: You need at least 2 phone calls with Mr. Elizondo per semester.

### What to do

6. Call (559) 549 - 3244 and leave a voicemail if call is not answered.

Make an appointment at: <u>https://elizondo.youcanbook.me</u>

Send a WebMail



 HSG-SRT.C.6: Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.

### **U3L2 – Objectives**



 Use the properties of 45-45-90 triangles and 30-60-90 triangles.

## U3L2 – 45-45-90 Right Triangle







Theorem 8-5 in textbook

Find the value of y. Put in simplest radical form.



 $y = 9\sqrt{2}$ 

## U3L2 – 45-45-90 Right Triangle



• 45-45-90 Triangles



A square has diagonal length of 12 cm. What is the side length of the square, to the nearest centimeter?



 $x^{2} + x^{2} = 12^{2}$   $2x^{2} = 144$   $x^{2} = 72$  $\mathbf{x} \approx \mathbf{8.49cm}$ 

## U3L2 – 30-60-90 Right Triangle





Theorem 8-6 in textbook



## U3L2 – 30-60-90 Right Triangle







## **U3L2 – Special Right Triangle**









45-45-90 Triangles











# **Questions?**



- Check the Message Board first
- Send a WebMail
- You can also make an appointment at <u>https://elizondo.youcanbook.me</u>
- You can also call me at (559) 549-3244. If I'm not available to answer your call, please leave a voicemail with your full name and phone number.