BECA / Huson, Segal / Geometry Name:

12.4 Roundtable: IB Trigonometry

Your "ANSWER KEY" must include all the information from the checkboxes and all work/answers for your problems. You may create your own presentation on a piece of paper, google doc/powerpoint, worksheet, etc.

1. "Right triangle solve for length" Requirements

MATH LANGUAGE

- ❏ Define **opposite, adjacent, hypotenuse**
- ❏ Define **SOH-CAH-TOA**

PROBLEM-SOLVING

- ❏ Show how to find a length given an angle and the hypotenuse

APPLICATIONS

- ❏ Teach one problem (create a problem or look through your old homework, classwork, and quizzes)
  - ❏ Have students complete 1 problem
  - ❏ Include answers in your answer key

**SPICY*: Extra Credit*

- ❏ Create a word problem using "adjacent" and solve it

2. "Area of triangle sine formula" Requirements

MATH LANGUAGE

- ❏ Define **base, height, altitude**
- ❏ Write down the sine triangle area formula

PROBLEM-SOLVING

- ❏ Calculate the area of a right triangle
- ❏ Calculate the area of a non-right triangle

APPLICATIONS

- ❏ Teach two problems (create a problem or look through your old homework, classwork, and quizzes)
  - ❏ Have students complete 1 problem
  - ❏ Include answers in your answer key

**SPICY*: Extra Credit*

- ❏ Create a word problem using "area," solve it

3. "Sine rule" Requirements

MATH LANGUAGE

- ❏ Define **opposite, across from**
- ❏ Write down the sine rule formula

PROBLEM-SOLVING

- ❏ Find the length of a triangle side given a side and two angles

APPLICATIONS

- ❏ Teach one problem (create a problem or look through your old homework, classwork, and quizzes)
  - ❏ Have students complete 1 problem
  - ❏ Include answers in answer key

**SPICY*: Extra Credit*

- ❏ Create your own word problem

4. "Cosine rule" Requirements

MATH LANGUAGE

- ❏ Define **included angle**
- ❏ Write down the cosine rule formula

PROBLEM-SOLVING

- ❏ Find the length of a triangle side given two sides and one angle

APPLICATIONS

- ❏ Teach one problem (create a problem or look through your old homework, classwork, and quizzes)
  - ❏ Have students complete 1 problem
  - ❏ Include answers in answer key

**SPICY*: Extra Credit*

- ❏ Create your own word problem

To Complete:

1. Attach 1 paper including all of your requirements listed on the front for your topic, and specifically name the problems (and an answer key with the work shown).
2. As your peers are presenting, copy down their definitions and examples on a SEPERATE sheet for each presenter.

Resources:

1. Stuck? Check your notebook!
2. You may use any problems from past worksheets, projects, quizzes, tests, etc. to help you teach your topic.
3. The day of your presentation, you will have access to a whiteboard and laptop you may use to teach your topic.
4. Questions? E-mail me at chuson@schools.nyc.gov

UNIT 12

	4	3	2	1
Math Content Standard: CCSS.MATH.CONTENT.HSG.SRT.D.9-11	Student can add, subtract, multiply, and factor polynomials correctly.	Student can add, subtract, multiply, and factor polynomials with a minor computational error.	Student can add, subtract, multiply, and factor polynomials with several minor computational errors or one major conceptual error.	Polynomial operations are completely incorrect or incoherent.
Math Practice Standard: CCSS.MATH.PRACTICE.MP1	Makes sense of problems and persevere in solving them. Shows their thinking and makes connections visible.	Makes sense of problems and persevere in solving them. Explanations are made, but missing connections.	Makes sense of problems and solves part of the problem. Connections and explanations are missing.	The problems are incomplete. Connections and explanations are missing or completely incorrect.
Presentations: CCSS.ELA-LITERACY.SL.9-10.4	Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	Information is presented clearly, but missing clear connections and organization.	Information is presented in a disjointed manner.	No information is presented verbally.

Name: _____ **UNIT #: 12** Class: _____ Date: _____

My topic is: _____

Is any part of your presentation online & shared with me (chuson@schools.nyc.gov) (circle)? YES NO

Math Language: Include the vocab from the requirements page, but feel free to add more!

Problem Solving: This is the skill(s) you will model to your group. See the details of the skill(s) you need to model on your requirements sheet. ***Include:*** Annotations and Step-by-Step Instructions or hints/tips.

Applications: Teach one or two problems based on <u>your</u> topic! Pick one or more problems that you will ask your classmates to try on their own after your presentation. You should have the answers and work to the completed below so you can make sure they did it right and answer any questions they have.

#1	**<u>Answer:</u>**
#2	**<u>Answer:</u>**

Bonus: If you would like to, include a “spicy” level problem. If your group has time, you can complete this together as well!

Name: _____ Class: _____ Date: _____

Student Notes - Roundtable Presentations

1. Presenter's Name: _____ Presentation #1 Topic: _____
   a. Example:

   b. Problems with work/answers:

   c. Feedback:
      i. Glow:

      ii. Grow:

2. Presenter's Name: _____ Presentation #1 Topic: _____
   a. Example:

   b. Problems with work/answers:

   c. Feedback:
      i. Glow:

      ii. Grow:

3. Presenter's Name: _____ Presentation #1 Topic: _____
   a. Example:

   b. Problems with work/answers:

   c. Feedback:
      i. Glow:

      ii. Grow:

Roundtable Reflection: Write a number 1-4 in the blank spaces to reflect on your presentation and preparation. Justify your score using specific examples and evidence.

a. **Did you use your time in class productively to prepare for the Roundtable Presentation? ___ / 4**
   *Justify***:**
   I (did / didn't) use my time in class productively because

b. **How effectively did you use your resources (notebook, worksheets, internet)? ___ / 4**
   *Justify***:**
   I effectively used my resources by

c. **Your understanding and mastery of the skills of your topic? ___ / 4**
   Justify:
   I (mastered / not yet mastered) my topic and I know this because

d. **Any other comments**: