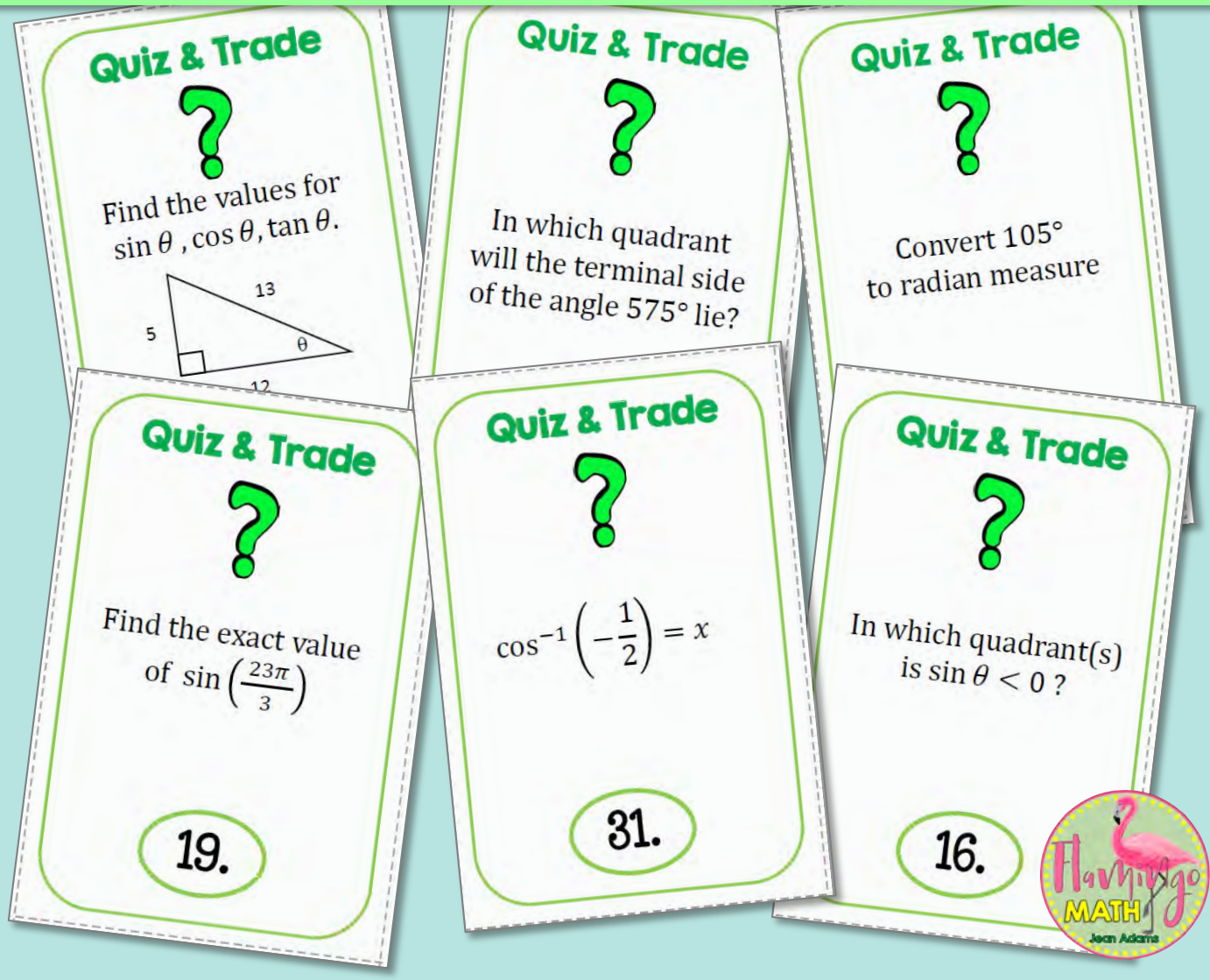
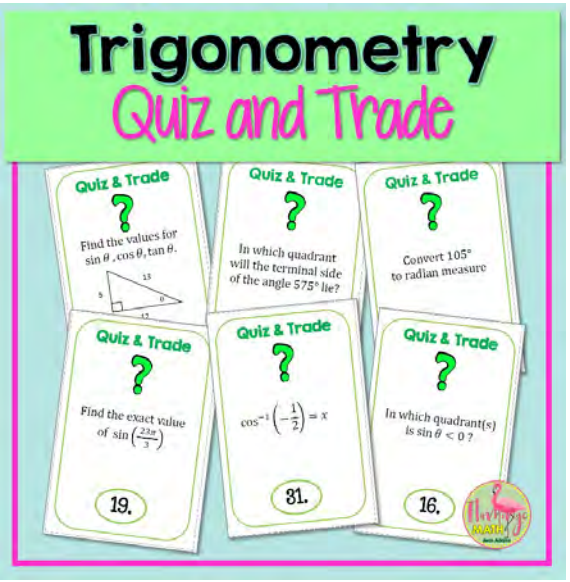
Trigonometry
Quiz and Trade





Quiz and Trade Trigonometry Review

This **Trigonometry Review Quiz and Trade Activity** is made for your Algebra 2 or PreCalculus students to gain proficiency in their ability to recall important concepts and recall facts about right triangle trigonometry and the unit circle.

You will find a **set of 32 Task Cards** with answers available for two-sided printing. This will make the activity self-checking and provide time for you to monitor student difficulties.

Students will practice the following skills:

- ☑ Simplest Radical Form
- ☑ Unit Circle Exact Values
- ☑ Reference Angles
- ☑ Converting degrees and radian measurements
- ☑ Operations of trigonometric functions
- ☑ Basic identities
- ☑ Inverse Trigonometric Function Values
- ☑ Solving right triangles
- ☑ Finding trigonometric signs based on Quadrants

Teaching Suggestions:

- Use the set as a group activity for a Quiz and Trade Learning Strategy.
- Use the cards as an independent activity prior to assessing students.

This activity is an adaptation of the learning strategy by Dr. Spencer Kagan. Kagan® Publishing and Professional Development is a registered trademark and was not involved in the creation of, and does not endorse this product

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TEACHER NOTES:

Learning Objectives:
This activity covers key concepts from Trigonometric Functions.

PREPARATION:
1) Decide whether you will copy the cards with or without answers on the back. If you decide to copy answers on the back of the cards, then choose "FLIP ON SHORT SIDE" on your printer.
2) Copy cards onto cardstock.
3) Laminate for durability.

USING THE ACTIVITY:

This activity is an adaptation of the learning strategy by Dr. Spencer Kagan. Kagan® Publishing and Professional Development is a registered trademark and was not involved in the creation of, and does not endorse this product.
This Kagan® Strategy is a seven-step process.

First, create a set of task cards that have questions on one side. Provide a post-it note or white board for students to respond to the activity.

1. Each student gets one question and answers their prompt.
2. Partner A will find another student (Partner B) and quiz them on their card.
3. Partner B answers your card, you are the expert.
4. Partner A coaches or praises.
5. Switch roles.
6. Partners trade cards and find another partner.
7. Repeat steps 1 – 6 several times.

EXTENSION:
Have students work through the cards in a math station for independent practice.

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Quiz & Trade

Find the value of $\sin\left(\frac{3\pi}{4}\right)$ in simplest radical form.

1.

Quiz & Trade

Find the reference angle for $-120°$

2.

Quiz & Trade

In which quadrant will the terminal side of the angle $575°$ lie?

3.

Quiz & Trade

Convert $\frac{3\pi}{5}$ to degree measure

4.

Quiz & Trade

Find the value of $\cos\left(\frac{7\pi}{6}\right)$ in simplest radical form.

5.

Quiz & Trade

Find the reference angle for $470°$

6.

Quiz & Trade

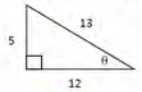
In which quadrant will the terminal side of the angle $-285°$ lie?

Quiz & Trade

Convert $105°$ to radian measu

Quiz & Trade

Find the values for $\sin\theta, \cos\theta, \tan\theta$.



9.

Quiz & Trade

Find both degree and radian answer:

$\cos\theta = -\frac{1}{2}$

10.

Quiz & Trade

Find $\sec\left(\frac{2\pi}{3}\right)$

11.

Quiz & Trade

In which quadrant(s) is $\cos\theta > 0$?

12.

Quiz & Trade

Multiply:
$(\tan 30°)(\sec 60°)$

21.

Quiz & Trade

On $[0, 2\pi)$ name the values where cotangent is undefined.

22.

Quiz & Trade

Find the exact value of $\cos\left(\frac{14\pi}{3}\right)$

23.

Quiz & Trade

Complete the statement:
$1 + tan^2 x =$ _____

24.

Quiz & Trade

Name the quadrant in which the angle θ lies.
$\sin\theta < 0 ; \tan\theta > 0$

25.

Quiz & Trade

Find $\tan\theta$, given
$\sin\theta = -\frac{1}{3}$
$\cos\theta = \frac{2\sqrt{2}}{3}$

26.

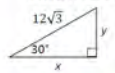
Quiz & Trade

$\tan^{-1}\left(-\sqrt{3}\right) = x$

27.

Quiz & Trade

Find x and y:



28.

Quiz & Trade

Name the quadrant in which the angle θ lies.
$\cos\theta > 0 ; \tan\theta < 0$

29.

Quiz & Trade

Find $\tan\theta$, given
$\sin\theta = \frac{2}{7}$
$\cos\theta = \frac{3\sqrt{5}}{7}$

30.

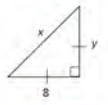
Quiz & Trade

$\cos^{-1}\left(-\frac{1}{2}\right) = x$

31.

Quiz & Trade

Find x and y:



32.

PREVIEW