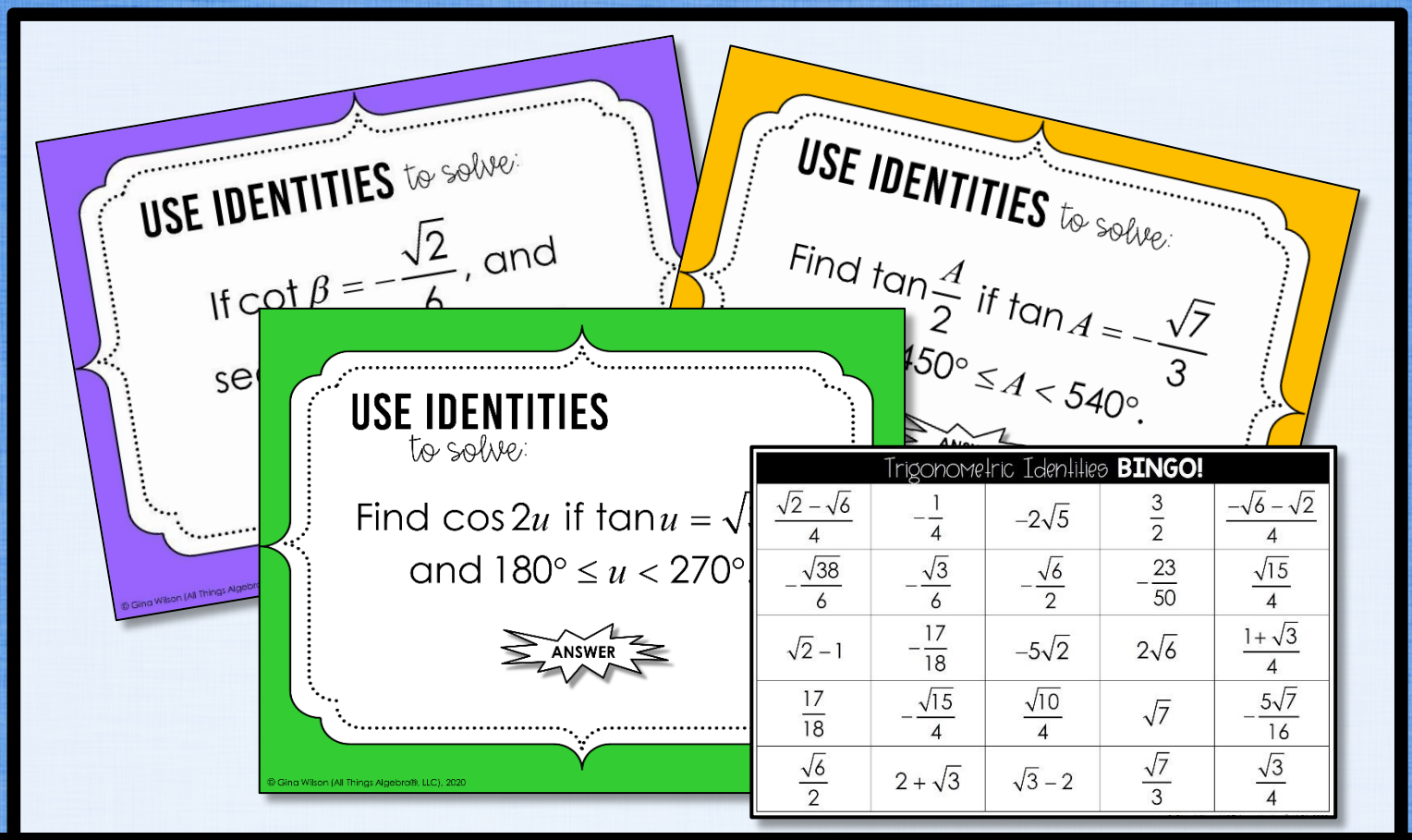


TRIGONOMETRIC *identities*

POWERPOINT BINGO

all things ALGEBRA®

TRIGONOMETRIC IDENTITIES

PowerPoint Bingo!

Objective: Students will practice using trigonometric identities to find exact values of trigonometric functions with this PowerPoint bingo game. This includes the quotient identities, reciprocal identities, Pythagorean identities, cofunction identities, even and odd identities, sum and difference of angles identities, double-angle and half-angle identities, product-to-sum identities, and sum-to-product identities.

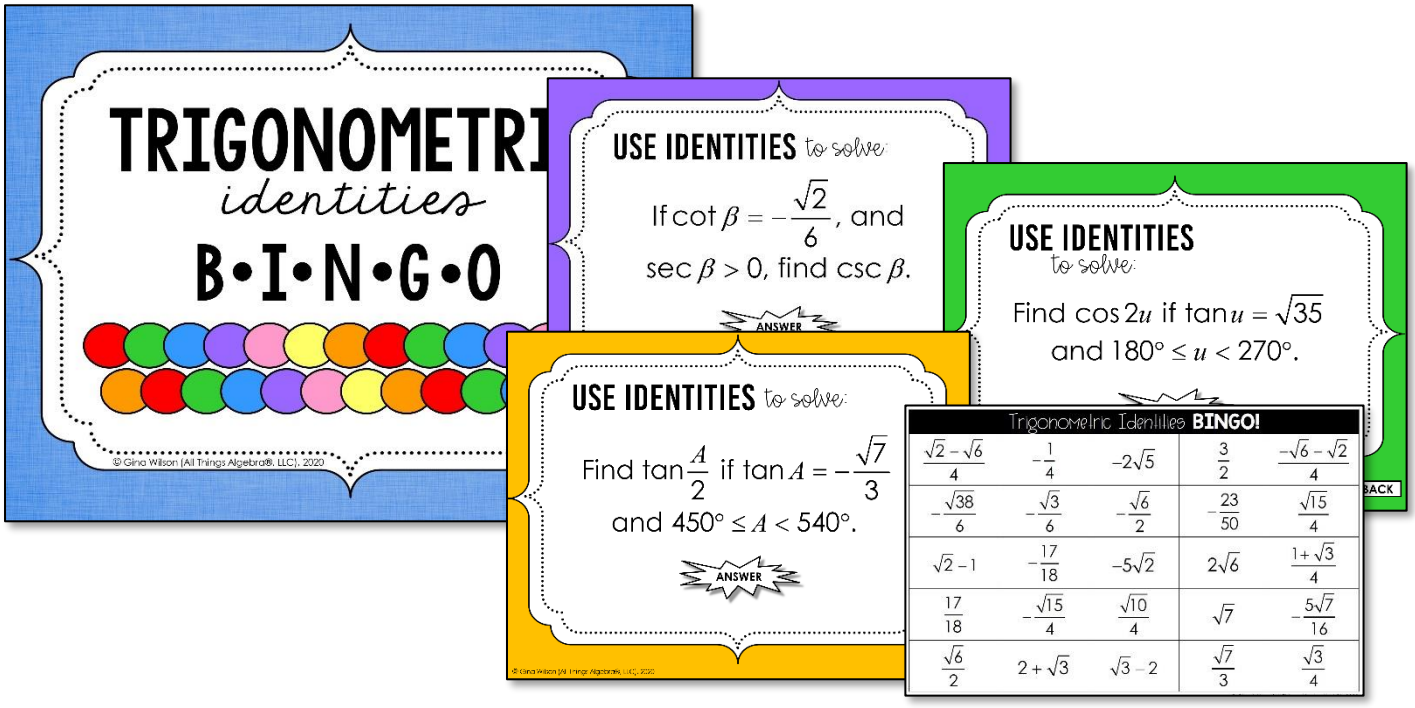
Directions:

1) Distribute a student recording worksheet and bingo board to each student. There are 30 boards included; if you have more than 30 students, simply repeat a board.

2) Open the PowerPoint game to run. Click on any circle to choose a problem. Students love coming up to the board (or computer) to select a problem, too! Students solve the problem at their desk on their worksheet. You can also choose to work through the problems with the students as they come up, or choose a student to work the problem at the board while the other students work at their desk.

3) Click "Answer" to display the answer. Students look for this answer on their bingo board and cross it off. Click back to return to the bingo circles screen and repeat until there is a winner. There are only 20 problems on the worksheet because there is almost always a winner by this point. If you need to keep going, they can continue their work on a separate sheet of notebook paper. I play until there are multiple winners.

A student wins if they get 5 in a row, column, or diagonal. I typically awarded lollipops ☺.



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