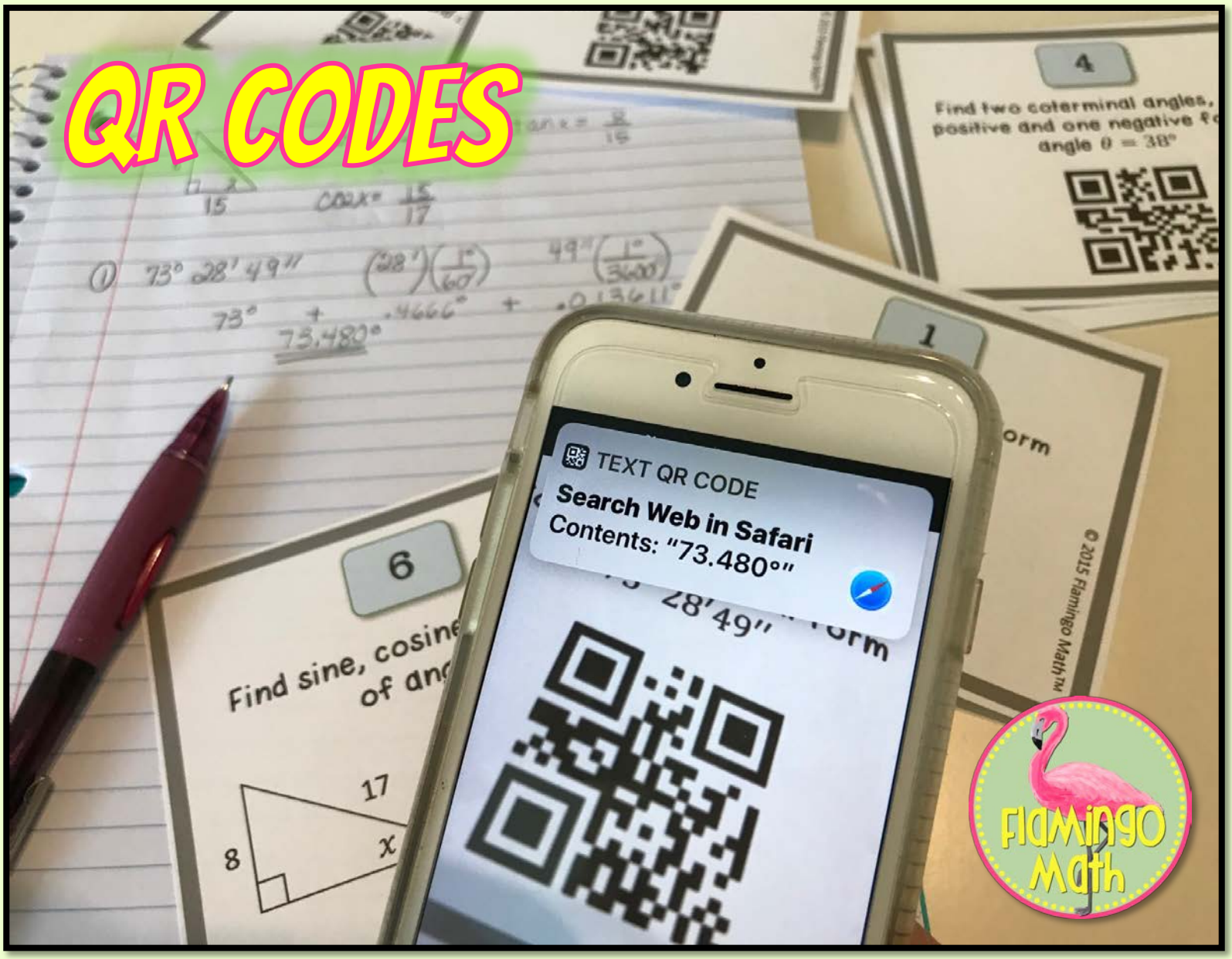
Trigonometric Functions Task Cards



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TRIGONOMETRIC FUNCTIONS with QR CODES ACTIVITY

This activity is designed to help your Pre-Calculus students evaluate circular functions in trigonometry as a mid-unit review for ***Trigonometric Functions***. There are 18 task cards in the activity. The cards cover the first half of my unit.

Lesson Objectives:
Students will find exact values, approximate values, angle measures, central angles, arc measures, and many other concepts.

Copy the task cards on card stock and laminate for durability. Students are provided a QR-Code to check their answers for each equation. Answers are given in both exact and decimal approximations.

A second set is also included without the QR Codes. Students can work in groups or independently. In the second set, there are six blank cards.

1

Convert to decimal form
$73° 28' 49''$

2

Convert from radians to degrees $\frac{5\pi}{12}$

3

Convert to Degrees-Minutes-Seconds
$46.427°$

5

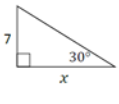
Find two coterminal angles, one positive and one negative for the angle $\theta = \frac{\pi}{3}$

7

Find the degree measure of the central angle whose intercepted arc measures 18 in. in a circle of radius 4 inches.

8

Find x for the triangle below:



9

Point $P = (-3, 4)$ is on the terminal side of the angle. Find all 6 trig functions for the angle.

10

Evaluate $\cos\frac{22\pi}{3}$

11

Find the arc length for a central angle whose measure is $\theta = 36°$ in a circle of radius 14 inches.

12

Find $\sin A$ and $\cos A$ if $\cot A = -\frac{12}{5}$ and $\cos A > 0$

13

Find the exact value for
$\sin(-450°)$

15

Find $\sin A$ and $\cos A$ if cotangent is undefined and $\sec A < 0$

17

Evaluate to 3 decimal places
$\csc 2.45$

18

Evaluate to 3 decimal places
$\tan\frac{5\pi}{12}$

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My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.

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