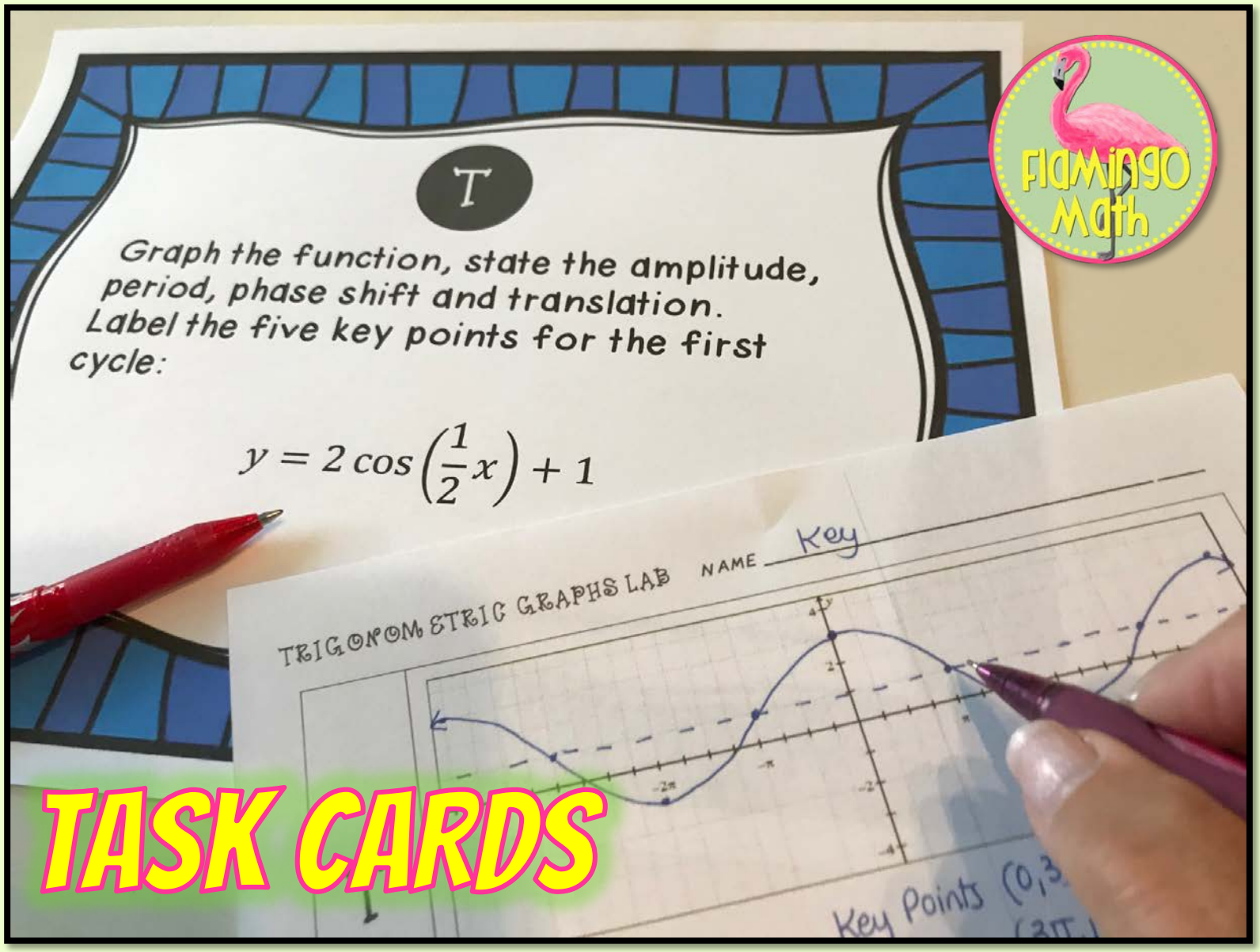
Trigonometric Graphs Stations Activity



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TRIGONOMETRIC GRAPHS STATIONS ACTIVITY

This activity is designed to help your Pre-Calculus students with graphing translations for sine and cosine functions. There are 8 station cards in the activity.

Print each task card and laminate for durability, or place each question in a clear sheet protector. Place one card at each station and have students move in groups of 3-4 from station to station. Allow about 5 minutes at each station. If time permits, you can provide a wild-card round to allow students to return to any question they didn't complete.

Or, you can reduce the size of the cards, print four to a sheet, give student pairs a set of questions to work through the prompts.

There are many other ways the activity can be used. All answer keys are provided.

T

Graph the function, state the amplitude, period, phase shift and translation. Label the five key points for the first cycle:

R1

Graph the function, state the amplitude, period, phase shift. Label the five key points for the first cycle:

I

Find an equation of the cosine function with amplitude 3, period 3π, and a phase shift 2π.

A. $y = 3\cos\left(\frac{2}{3}x + \frac{4\pi}{3}\right)$

B. $y = 3\cos\left(\frac{2}{3}x - \frac{4\pi}{3}\right)$

C. $y = 3\cos\left(\frac{2}{3}x + \frac{2\pi}{3}\right)$

G1

Find an equation of the cosine function with amplitude 3, period 6π, and a pha... -2π.

A. $y = 3\cos\left(x - \frac{2\pi}{\ }\right)$

R2

Graph th... function, st... the a...plitud... period, ph...e ...ift. Lab... the ...ve key points for ...e ...rst cycle:

$y = \ -2\cos\left(x - \frac{\pi}{\ }\right)$

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A

Determine amplitude, period and phase shift for each of the following:

A. $y = \sin(2x + \pi)$

B. $y = 3\cos\left(x \quad \pi\right)$

$y = 4\sin$

$= -2$

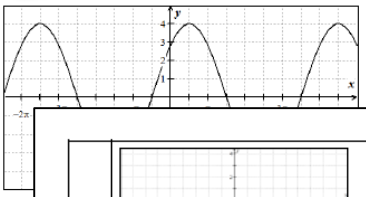
P

Graph the function, state the a... ...de, period, phase shift. Label the five key points for the first cycle:

$y = 2\cos(2x)$

H

...se th... ...ine f... ...tion to write the equation ... th... graph shown.



TRIGONOMETRIC GRAPHS LAB NAME _____

T

R1

I

G1

R2

A

P

H

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