

Sine & Cosine Match-Up Activity

This Algebra 2 Matching Activity is a fun-filled cooperative set of task cards for ***Introduction to Trigonometry Unit.***

This activity is designed to help your Algebra 2 students review key concepts at the end of the unit on ***Introduction to Trigonometry.*** There are 48 task cards to match 12 graphs with their equation and special characteristics.

You will also find a student recording sheet on which to answer the prompts. Print and Go differentiation saves you valuable planning time.

Standards covered:

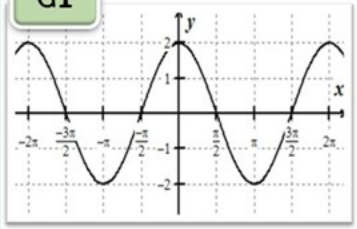
CCSS: HSF.TF.A.4; HSF.TF.B.5; HSF.TF.A.1; HSF.TF.A.2; HSF.TF.A.3; HSF.TF.B.7

TEKS: A2.1(A), A2.1.(B), A2.1(E), A2.1(G), G.9(A), G.9(B), P.2(P),P.4(E), P.4(B), P.4(C), P.4(D)

Teaching Suggestions:

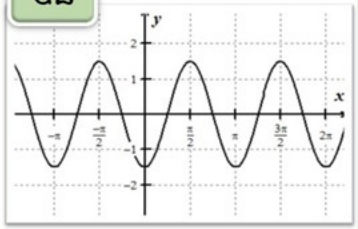
- ❑ Use the set as a group activity for 2-4 per group .
- ❑ Use the cards as a review activity prior to assessing students.

G1



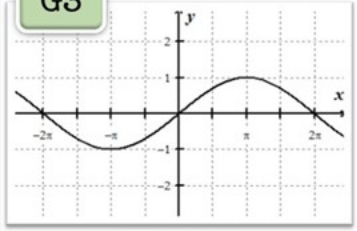
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G2



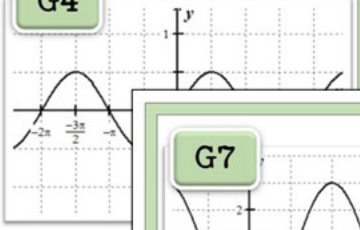
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G3

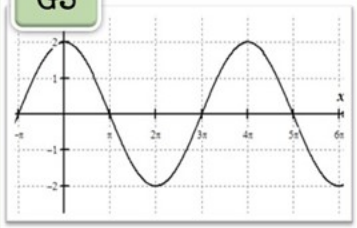


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G4

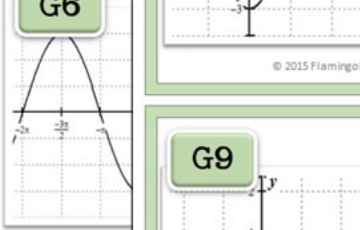


G5

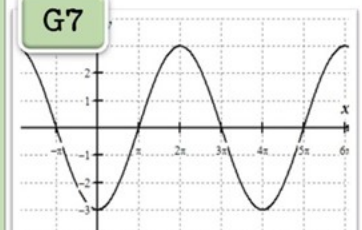


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G6

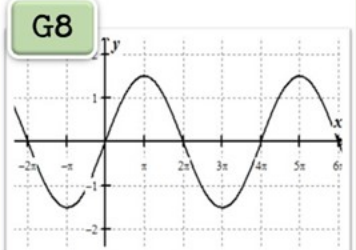


G7



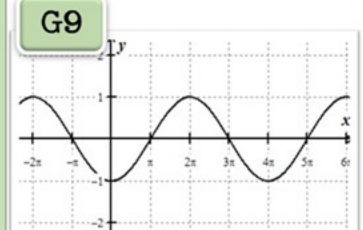
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G8



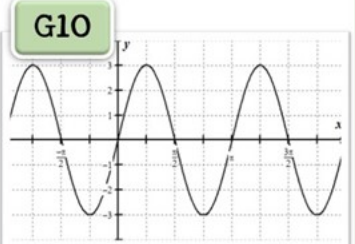
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G9



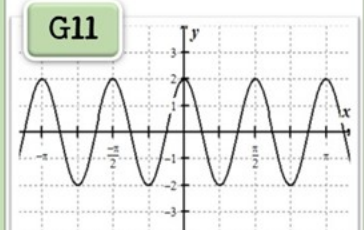
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G10



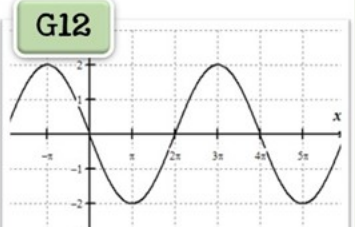
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G11



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G12



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E1

$$y = 3\sin x$$

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E2

$$y = \sin\left(\frac{1}{2}x\right)$$

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E3

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

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E4

$$y = -2\sin\left(\frac{1}{2}x\right)$$

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E6

$$y = -3\cos\left(\frac{1}{2}x\right)$$

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E8

$$y = \frac{1}{2}\sin x$$

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E9

$y = 1.5 \sin\left(\frac{1}{2}x\right)$

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E10

$y = 2\cos(4x)$

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E11

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

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E12

$y = -1.5\cos(2x)$

D1

Minimum: $\left(-\frac{\pi}{4}, -2\right)$

Period: $\frac{\pi}{2}$

D3

Maximums & Minimums:
odd multiples of π

Intercepts:
even multiples of π

D5

A = -1.5

Period: π

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D6

Amplitude = $\frac{1}{2}$

Period: 2π

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D7

Amplitude: 2

Period: 2π

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D8

Maximum: 3

Intercepts:
$\{\ldots -\pi, 0, \pi \ \ldots\}$

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D9

Maximum: $\left(\frac{\pi}{4}, 3\right)$

Period: π

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D10

Amplitude = 1

Period: 4π

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D11

A = -1

Intercepts:
odd multiples of π

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D12

A = -3

Period: 4π

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Sine and Cosine Match Up

Names:_____

Graph	Equation	Description
G1		
G2		
G3		
G4		
G5		
G6		
G7		
G8		
G9		
G10		
G11		
G12		

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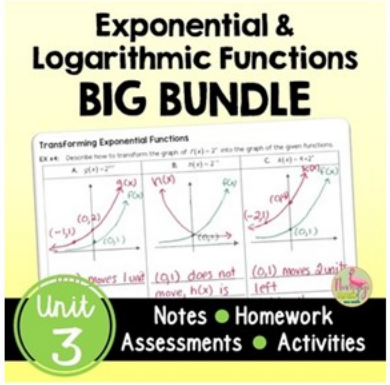


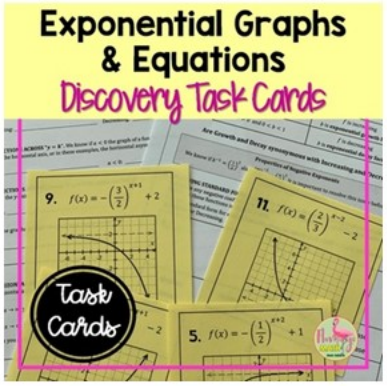
My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.

Jean

More Resources for YOU









Let's keep in touch! I'm here for you!

TPT

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jean@flamingomath.com

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