



October 21

How are the transformations of sine and cosine graphs similar to and different from the graphs of secant and cosecant?



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Students will verbally explain how to graph all six trig functions
(using the words:
zero, asymptote, undefined...)



Equation	Graph	Description of Graph	Endpoints or Midpoint
$y = 3 \sin\left(\frac{x}{2}\right) - 1$	correct answer		
$y = -2 \sin(\pi x + 1)$			F
$y = 3 \csc(\pi x)$			
$y = -3 \sec\left(\frac{1}{4}\left(x - \frac{\pi}{4}\right)\right) - 3$			
$y = 2 \sec(2x)$			
$y = -3 \cos\left(x + \frac{\pi}{4}\right)$			
$y = 2 \csc\left(x - \frac{\pi}{3}\right) + 3$			
$y = 2 \cos(\pi x) + 3$			

Person 1: What was your strategy for matching the cards?

Person 2: Choose the hardest graph to match.

What are some properties of the graph or equation that can help you match them correctly?

Person 3: Choose one of the descriptions.

What parts of the equation can help you match it correctly?

Person 4: Choose one of the midpoints/endpoints you matched incorrectly (or did not match on Friday).

Describe how you can find the endpoints and midpoints of one cycle in a trig function.