

Questions on 4.5?

Graph $y = \sin x$ **Use graphing calculator for assignment.**

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

period: 2π

abettercalculator.com

Sep 26-10:15 AM

Sep 24-6:05 PM

#13, p. 316
 Graph $y = 3 \csc \frac{x}{2}$ $amp = 3$ $period = \frac{2\pi}{\frac{1}{2}} = 4\pi$

$y = 3 \sin \frac{x}{2}$
 $y = \frac{3}{\sin \frac{x}{2}}$

Graph $y = \cos x$

$y = \sec x$

period: 2π

Sep 24-6:13 PM

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#9, p. 316

$$y = -\frac{1}{2}\sec x$$

$$y = -\frac{1}{2}\cos x$$

$$y = \frac{-\frac{1}{2}}{\cos x}$$

amp = $\frac{1}{2}$
 Reflect x-axis
 Period = $\frac{2\pi}{1}$
 $= 2\pi$

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Period for $y = \sin x$:
 Period for $y = \cos x$:
 Period for $y = \csc x$: 2π
 Period for $y = \sec x$:

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HOMEWORK

...transformations of $y = \csc x$ and $y = \sec x$

4.6a, p. 316 : 9, 13, 19, 21, 25, 29, 35, 37

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