

Graphing primary trig ratios in radians

Make an accurate graph of $y=\sin x$, $y=\cos x$, and $y=\tan x$ over the interval $-\frac{\pi}{2} \leq x \leq 2\pi$ on the sheet provided.

Nov 19-12:17 PM

Now let's start the transformations:

$$f(x) = a \sin(k(x - d)) + c$$

$|a|$ = the **vertical** stretch/compression factor

$|a|$ = amplitude

$\left|\frac{1}{k}\right|$ = the **horizontal** stretch/compression factor

$\frac{2\pi}{|k|}$ = period

d = horizontal translation (phase shift)

c = vertical translation

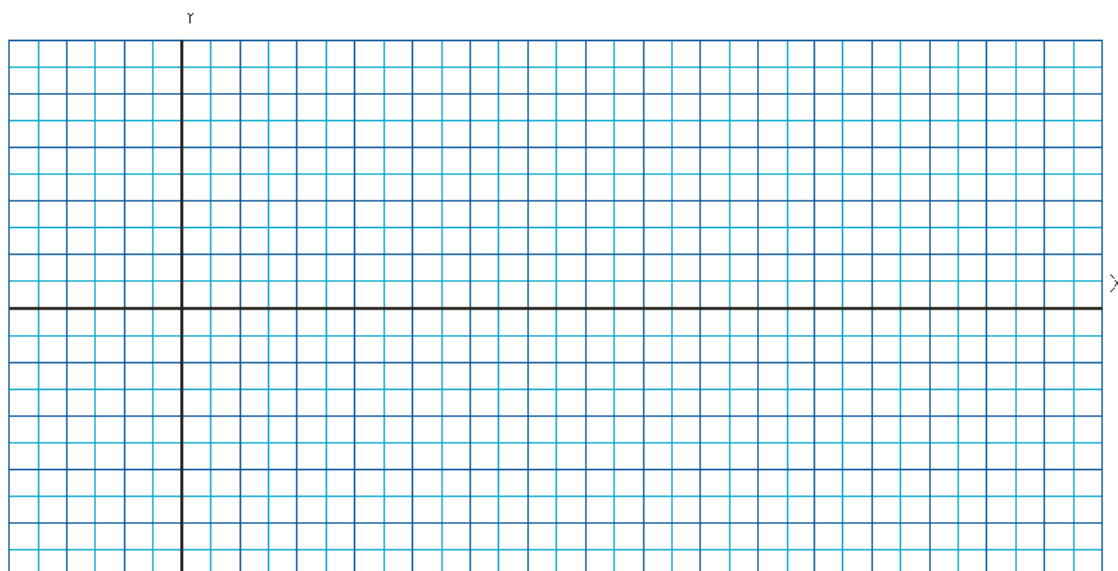
$y=c$ the equation of the axis

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Describe the transformations and graph the function on the interval

$$-\frac{\pi}{2} \leq x \leq 2\pi$$

$$y = -3\sin\left(2\left(x - \frac{\pi}{6}\right)\right) + 1$$

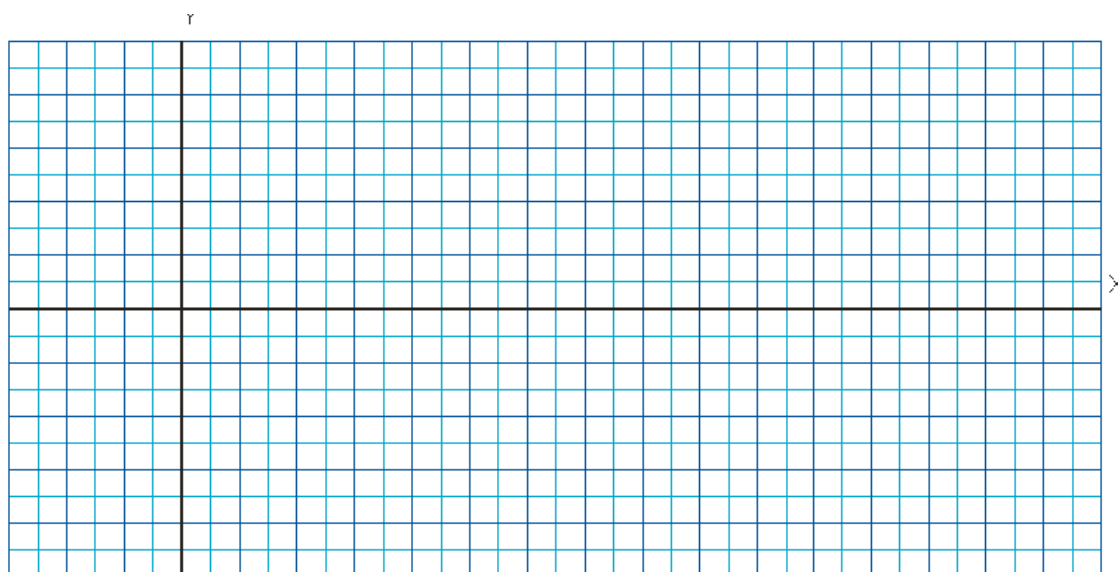


Nov 15-9:44 AM

Describe the transformations and graph the function on the interval

$$-\frac{\pi}{2} \leq x \leq 2\pi$$

$$y = \tan\left(0.5\left(x + \frac{\pi}{4}\right)\right)$$



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Homework
p343 #1 all

Nov 19-12:35 PM