
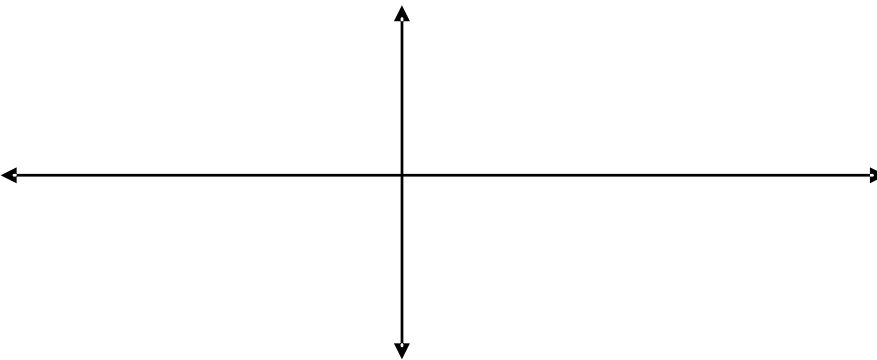




GRAPHING TRIG FUNCTIONS WORKSHEET #3

Graph two full periods of each function. Label the scale on both axes.

<p>1. $y = \sin\left(x - \frac{\pi}{3}\right)$</p> <p>Amplitude: Period: Phase Shift: Vertical Displacement: Reflection?</p>	
<p>2. $f(x) = 2 + \tan x$</p> <p>Amplitude: Period: Phase Shift: Vertical Displacement: Reflection?</p>	
<p>3. $y = \cos(2x + \pi)$</p> <p>Amplitude: Period: Phase Shift: Vertical Displacement: Reflection?</p>	
<p>4. $y = \tan(4x - \pi) + 1$</p> <p>Amplitude: Period: Phase Shift: Vertical Displacement: Reflection?</p>	

<p>5. $f(x) = 1 - \cos x$</p> <p>Amplitude: Period: Phase Shift: Vertical Displacement: Reflection?</p>	
<p>6. $y = \frac{1}{2} \sin(2x + 3\pi)$</p> <p>Amplitude: Period: Phase Shift: Vertical Displacement: Reflection?</p>	

Write an equation of the graph described.

7. The graph of $y = \tan x$ translated down 4 units and left 1 unit.

8. The reflection of the graph of $y = \cos x$ with a period of 4π .

9. The graph of $y = \sin x$ with an amplitude of 4 that is translated right 3 units.

10. The reciprocal of $y = \sin x$ that is translated left 5 units and up 4 units.