

Name:

Period:

Date:

Key

Practice Worksheet: Writing Equations of Trig Functions

1] Vertical displacement: -2	2] Period and b-value: $\text{Per} = 2\pi$ $b = 1$	
3] Amplitude: 3	4] Reflection in the x-axis? $—$	
5] Equation of the graph assuming no phase shift. $y = 3 \cos \theta - 2$		
6] Vertical displacement: $—$	7] Period and b-value: $\text{Per} = 2\pi$ $b = \frac{1}{2}$	
8] Vertical stretch/shrink: $.5 \text{ like } a$	9] Reflection in the x-axis? $—$	
10] Equation of the graph assuming no phase shift. $y = .5 \tan \frac{1}{2} \theta$		
11] Vertical displacement: 2	12] Period and b-value: $\text{Per} = 2\pi$ $b = 1$	
13] Vertical stretch/shrink: 1	14] Reflection in the x-axis? yes no	
15] Equation of the graph assuming it is a secant function. $y = -\sec \left(x - \frac{3\pi}{4} \right) + 2$ $y = \sec \left(x + \frac{\pi}{4} \right) + 2$		
16] Vertical displacement: $—$	17] Period and b-value: $\text{Per} = \pi$ $b = 1$	
18] Vertical stretch/shrink: 2	19] Reflection in the x-axis? yes	
20] Equation of the graph assuming it is a tangent function. $y = 2 \tan \theta$		

