**Given the amplitude, period, horizontal shift, vertical shift and whether or not there is a reflection over the x-axis: 1) write the function and 2) graph the function.**

1. amplitude: 1.5, period: π, horizontal shift: π/2, vertical shift: 4, reflection? no

y =



1. amplitude: 5, period: 2π/3, horizontal shift: 0, vertical shift: -2, reflection?: yes

y =



**Given the equation, 1) list the amplitude, period, horizontal shift, vertical shift and whether or not there is a reflection over the x-axis and then 2) graph the function.**

amp.: \_\_\_\_, period: \_\_\_\_, horiz. shift: \_\_\_\_, vert. shift: \_\_\_\_, reflection?: \_\_\_\_



1. [Careful! The horizontal shift is NOT ]

amp.: \_\_\_\_, period: \_\_\_\_, horiz. shift: \_\_\_\_, vert. shift: \_\_\_\_, reflection?: \_\_\_\_



1. [Careful!]

amp.: \_\_\_\_, period: \_\_\_\_, horiz. shift: \_\_\_\_, vert. shift: \_\_\_\_, reflection?: \_\_\_\_



**Given the following graphs, 1) list the amplitude, period, horizontal shift, vertical shift and whether or not there is a reflection over the x-axis and then 2) write the equation for the function.**



|  |  |
| --- | --- |
| Amp |  |
| Period |  |
| HorizontalShift |  |
| VerticalShift |  |

1. y =



1. y =

|  |  |
| --- | --- |
| Amp |  |
| Period |  |
| HorizontalShift |  |
| VerticalShift |  |