**Trigonometry Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**WKS – Graphing Sine & Cosine Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour\_\_\_\_\_\_**

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| 1. Consider the function: $y=\frac{-1}{2}\cos(\left(3x-\frac{π}{2}\right))+2$  The amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left right The period is \_\_\_\_\_\_\_\_ The vertical shift is \_\_\_\_\_\_\_ units up down left right  |
| 2. For  Write the equation in standard form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left right The period is \_\_\_\_\_\_\_\_ The vertical shift is \_\_\_\_\_\_\_ units up down left right |
| 3. For $y=a\sin((bx-c))+d$ give a complete description of the translation that occurs based upon \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |
| Description: http://laurashears.info/math122/graphsAndResources/graph.gifGraph the basic function, either or and then graph one complete cycle of the following functions.4-5. Sketch the graph of The amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left rightThe period is \_\_\_\_\_\_\_\_  The vertical shift is \_\_\_\_\_\_\_ units up down left right |
| Neatly and accurately graph one cycle of the given function.Description: http://laurashears.info/math122/graphsAndResources/graph.gif6. Sketch the graph of The amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left rightThe period is \_\_\_\_\_\_\_\_  The vertical shift is \_\_\_\_\_\_\_ units up down left right |
| 7. Sketch the graph of Description: http://laurashears.info/math122/graphsAndResources/graph.gifThe amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left rightThe period is \_\_\_\_\_\_\_\_  The vertical shift is \_\_\_\_\_\_\_ units up down left right |
| Description: http://laurashears.info/math122/graphsAndResources/graph.gif8. Sketch the graph of The amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left rightThe period is \_\_\_\_\_\_\_\_  The vertical shift is \_\_\_\_\_\_\_ units up down left right |
| Description: http://laurashears.info/math122/graphsAndResources/graph.gif9. Sketch the graph of The amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left rightThe period is \_\_\_\_\_\_\_\_  The vertical shift is \_\_\_\_\_\_\_ units up down left right |
| Description: http://laurashears.info/math122/graphsAndResources/graph.gif10. Sketch the graph of Write the equation in standard form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_The amplitude is \_\_\_\_\_\_\_\_ The phase shift is \_\_\_\_\_\_\_\_ units up down left rightThe period is \_\_\_\_\_\_\_\_  The vertical shift is \_\_\_\_\_\_\_ units up down left right |