

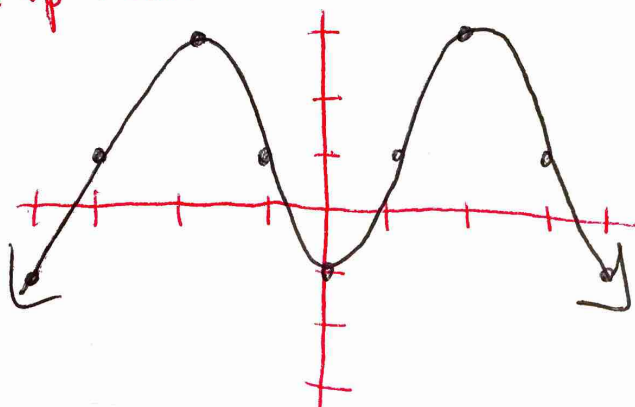
HW 10 - GRAPHING SIN AND COS

NAME Key F'16
(final answer graphed)

Explain the transformation of each graph, then graph each function from -2π to 2π .

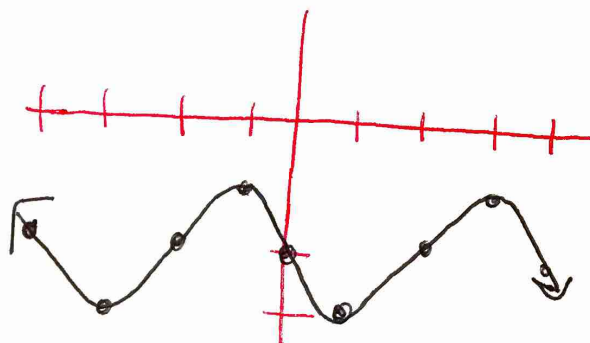
1. $y = -2\cos x + 1$

amplitude = 2 so its twice as tall as original
the negative flips it over the x-axis
shifted up 1 unit



2. $y = \sin(x - \pi) - 2$

phase shift = π so it moves to the right π units (2 tick marks)
moves down 2 units



↑ shown above is just the final answer for #1 & #2
↓ shown below is the PROCESS of how you get to the final answer.

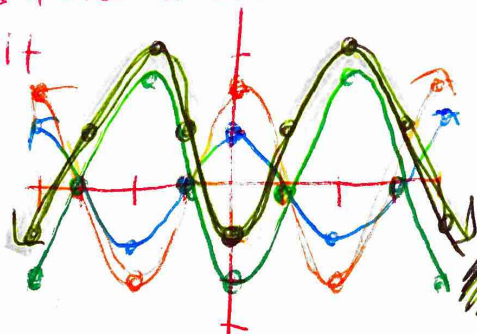
HW 10 - GRAPHING SIN AND COS

NAME Key F'16
(entire process)

1. $y = -2\cos x + 1$

amplitude = 2 so its twice as tall as original
the negative flips it over x-axis
shifted up 1 unit

- $\cos x$
- $2\cos x$
- $-2\cos x$
- $-2\cos x + 1$



2. $y = \sin(x - \pi) - 2$

phase shift = π so it moves to the right π units (2 tick marks)
moves down 2 units

