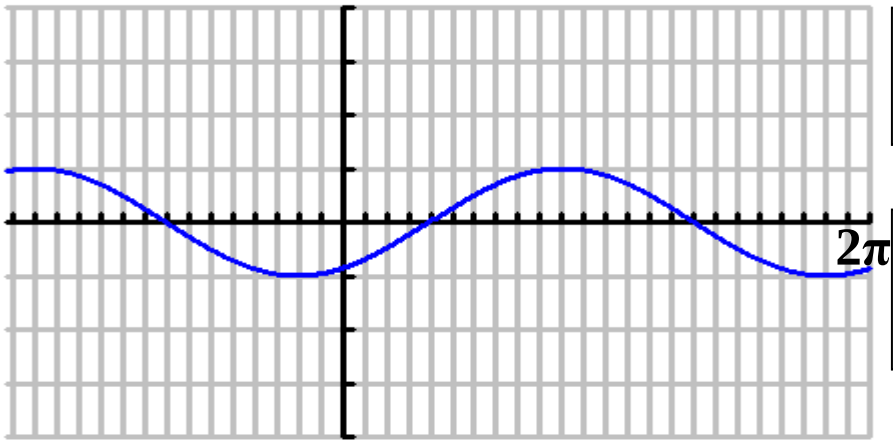
PC – Trig Name_____

Writing Equations for Sine and Cosine

For #'s 1-6, write an equation that could model the following transformations of **y = sin θ.**

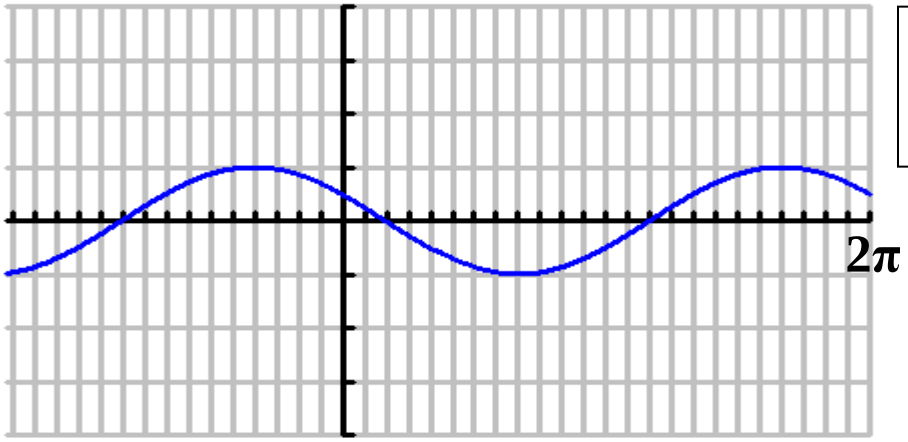
1.



Compare each new graph to your graph of sin θ!

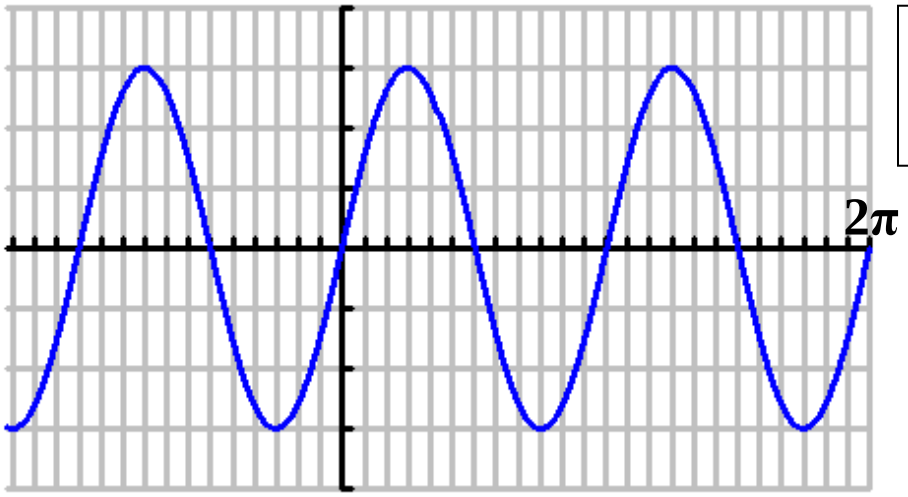
y =_____

2.



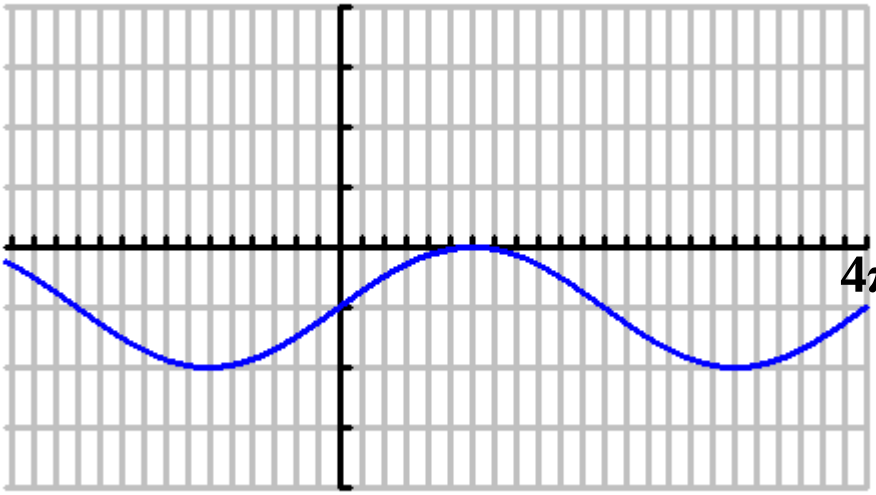
y =_____

3.



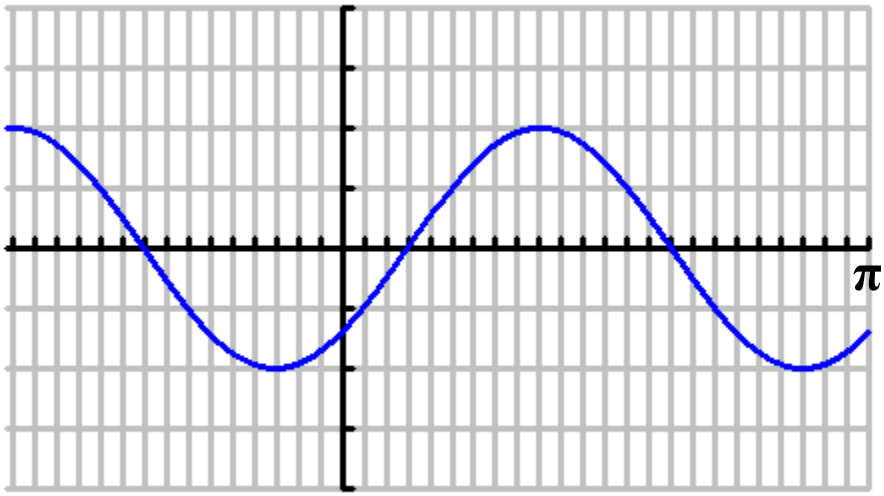
y =_____

4.



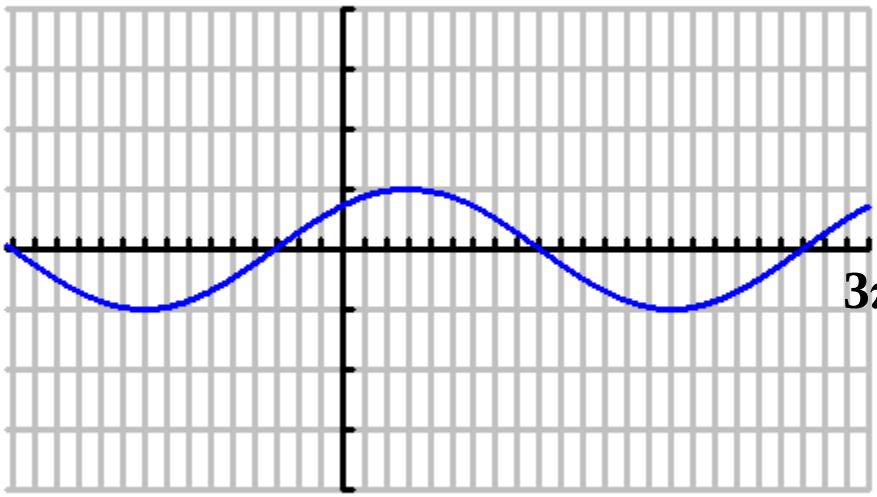
y =_____

5.



y =_____

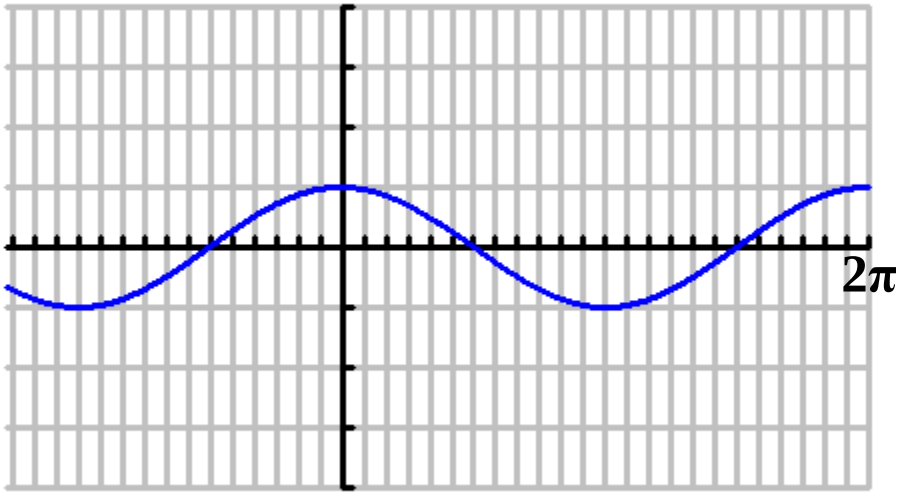
6.



y =_____

For #’s 7-12, write an equation that could model the following transformations of **y = cos θ.**

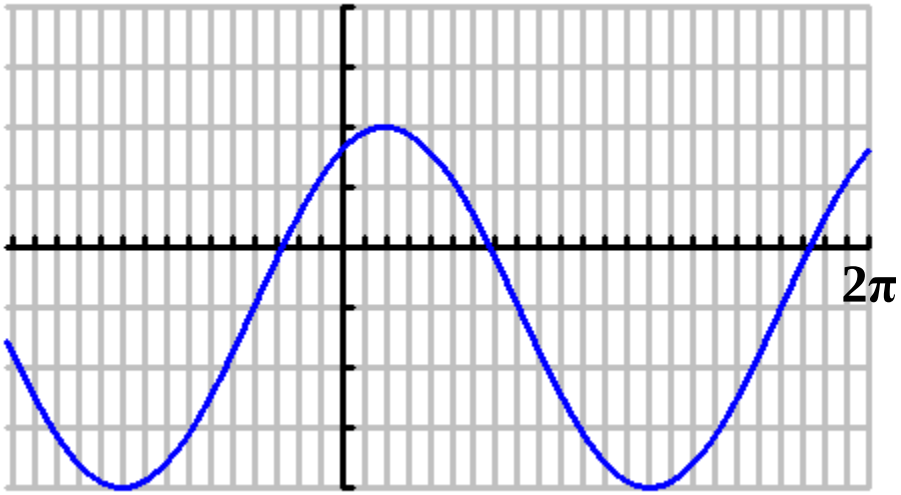
7.



This may not look like a transformation, but it is. What transformation would be equivalent to the original graph of cos θ?

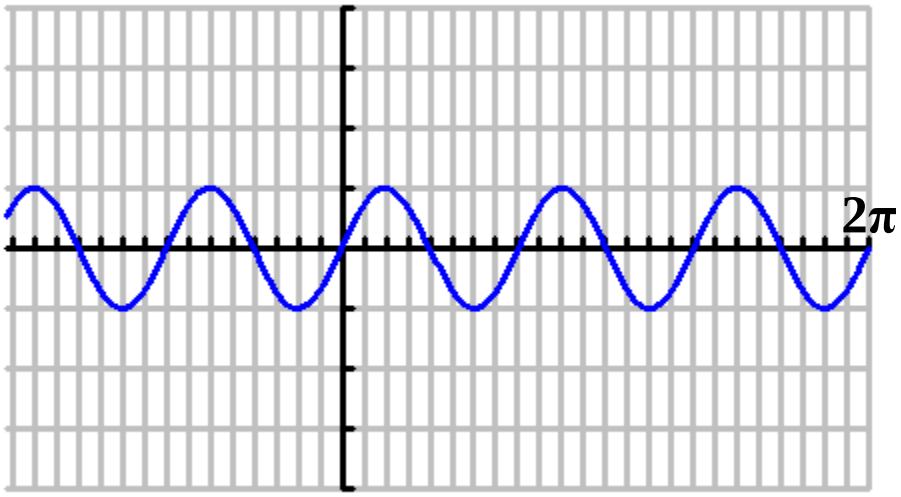
y =_____

8.



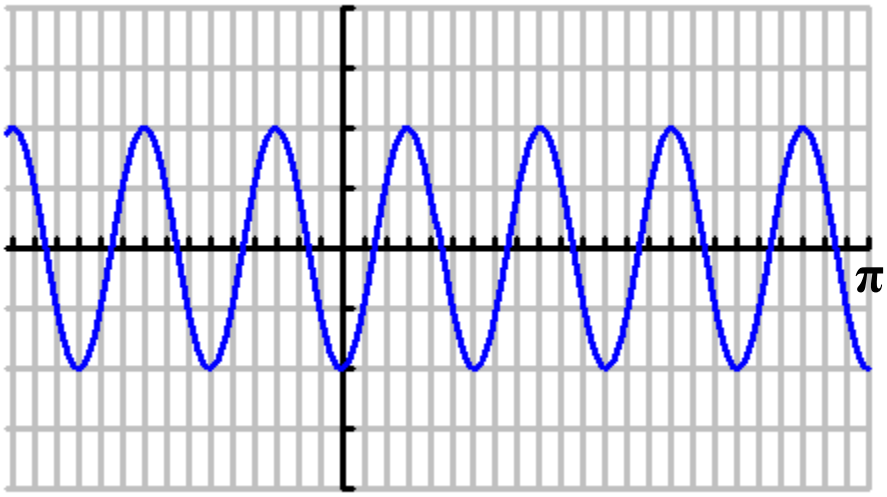
y =_____

9.



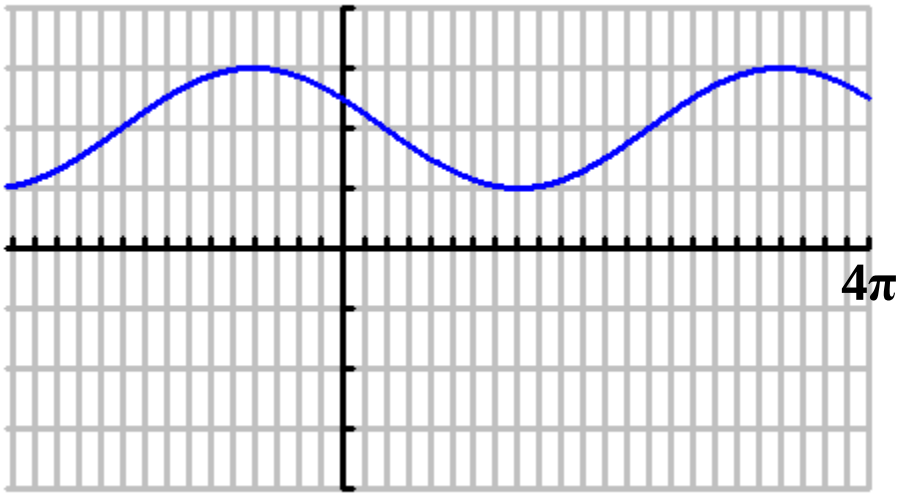
y =_____

10.



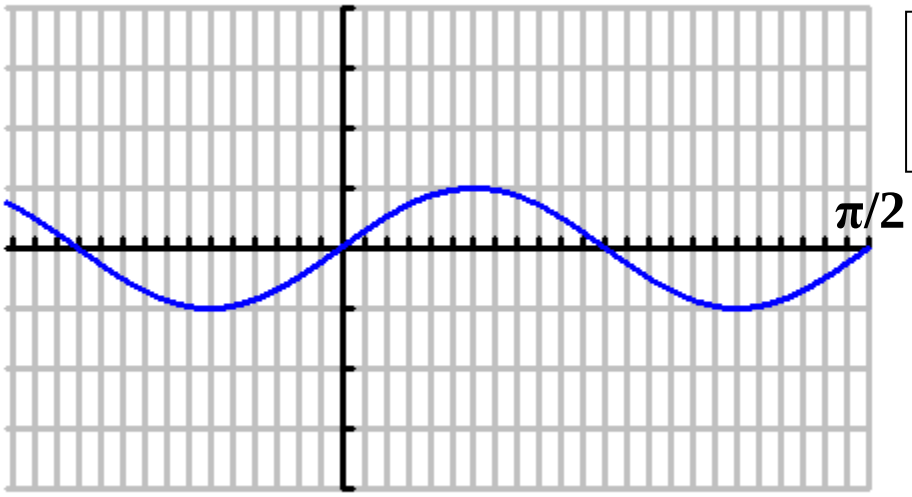
y =_____

11.



y =_____

12.



y =_____