

Name Key

Vertical Shifts and Amplitudes HW

Find the amplitude for each function.

1.  $y = \sin \theta$  1

6.  $y = -\sin \frac{3\theta}{2}$  1

2.  $y = 2\sin \theta$  2

7.  $y = \frac{2}{3}\sin 4\theta$   $\frac{2}{3}$

3.  $y = \frac{1}{2}\cos \theta$   $\frac{1}{2}$

8.  $y = 3\sin \frac{2\theta}{3}$  3

4.  $y = \sin 5\theta$  1

9.  $y = -2\cos \frac{\theta}{4}$  2

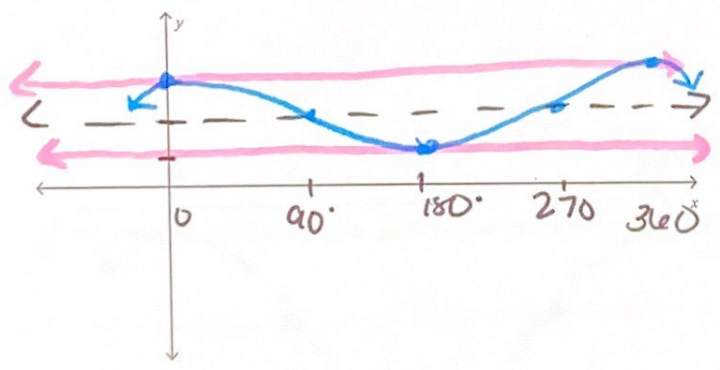
5.  $y = -3\cos \frac{\theta}{2}$  3

10.  $y = \frac{3}{4}\cos \frac{3\theta}{2}$   $\frac{3}{4}$

Graph each function in degrees.

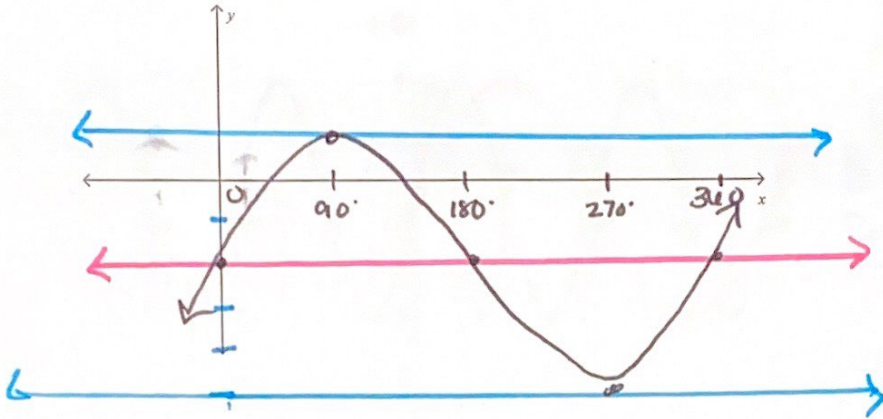
11.  $y = \cos \theta + 2$

Amp: 1 Per: 360 V.S: up 2 P.S. ✓



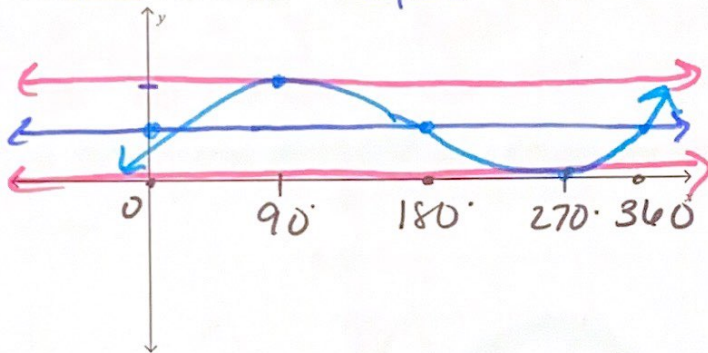
12.  $y = 3 \sin \theta - 2$

Amp: 3 Per: Not yet V.S: down 2 P.S. Not yet  
 $360^\circ$



13.  $y = \sin \theta + 1$

Amp: 1 Per: Not yet V.S: up 1 P.S Not yet  
 $360^\circ$



14.  $y = 4 \cos \theta - 5$

Amp: 4 Per: Not yet V.S: down 5 P.S. Not yet

