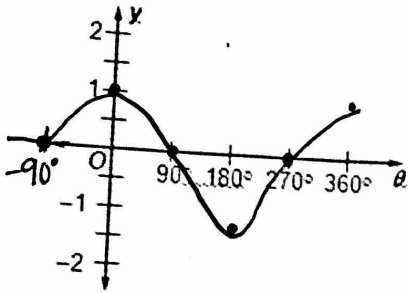


PRACTICE PROBLEMS: *Master E*

1-3: State the amplitude, period, and phase shift for each function. Then graph the function.

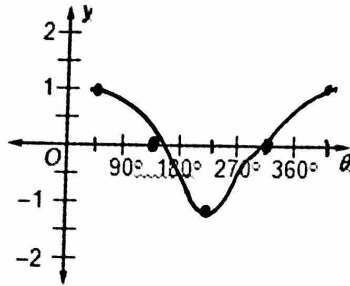
1. $y = \sin(\theta + 90^\circ)$

A: 1 P: 360° PS: -90°



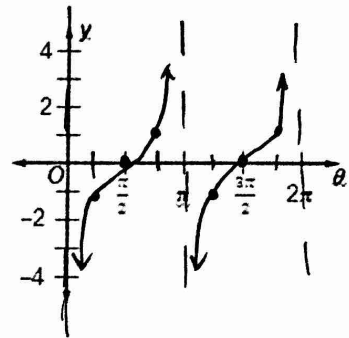
2. $y = \cos(\theta - 45^\circ)$

A: 1 P: 360° PS: 45°



3. $y = \tan(\theta - \frac{\pi}{2})$

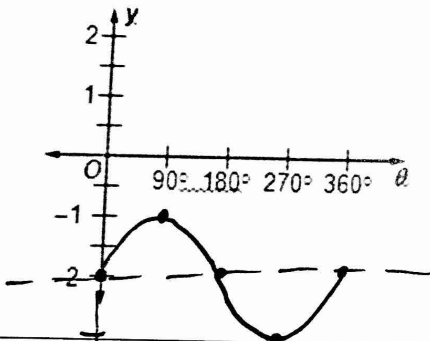
A: N/A P: π PS: $\frac{\pi}{2}$



4-6: State the amplitude, period, vertical shift, and equation of the midline of each function. Then graph it.

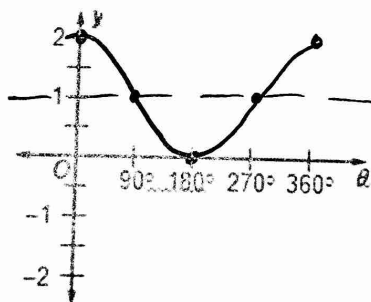
4. $y = \sin \theta - 2$

A: 1 P: 360° VS: -2 M: $y = -2$



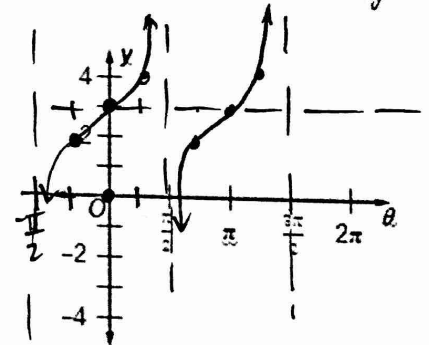
5. $y = \cos \theta + 1$

A: 1 P: 360° VS: 1 M: $y = 1$



6. $y = \tan \theta + 3$

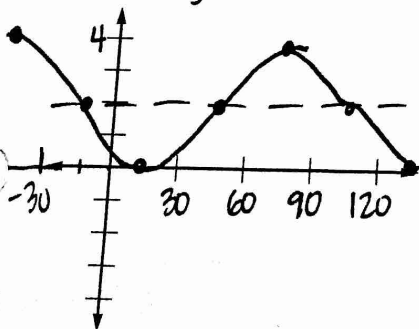
A: N/A P: π VS: 3 M: $y = 3$



7-9: State the amplitude, period, phase shift, and vertical shift of each function. Then graph it.

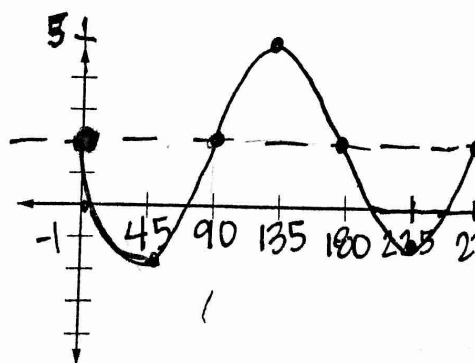
7. $y = 2 \cos[3(\theta + 45^\circ)] + 2$

A: 2 P: 120° PS: -45° VS: 2



8. $y = 3 \sin[2(\theta - 90^\circ)] + 2$

A: 3 P: 180° PS: 90° VS: 2



9. $y = 4 \tan(\theta - \pi/4)$

A: N/A P: π PS: $\frac{\pi}{4}$ VS: 0

