

## Trig Graphs

## Worksheet #7 Review Writing sine/cosine equations

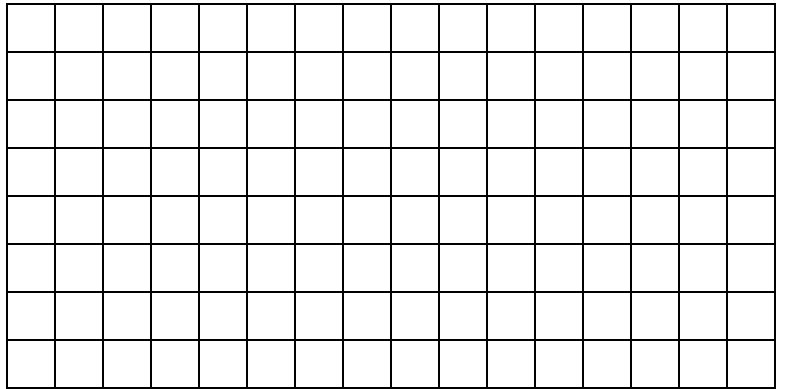
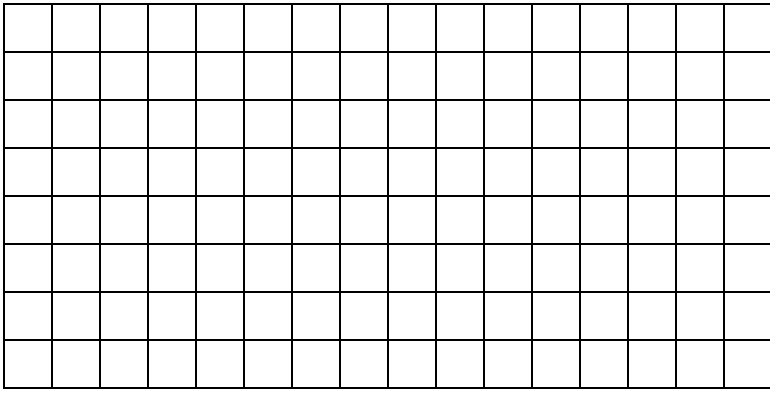
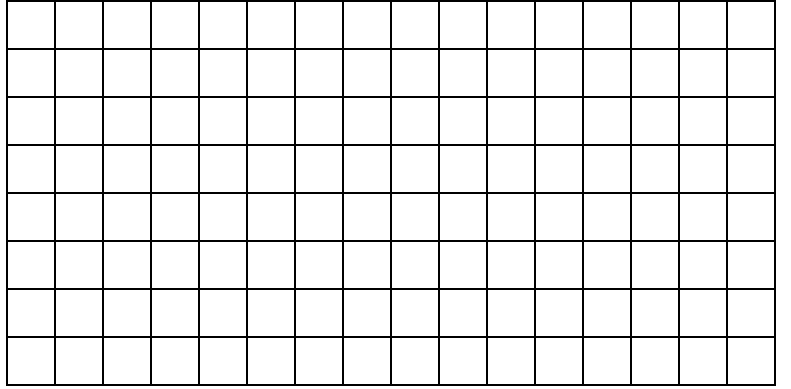
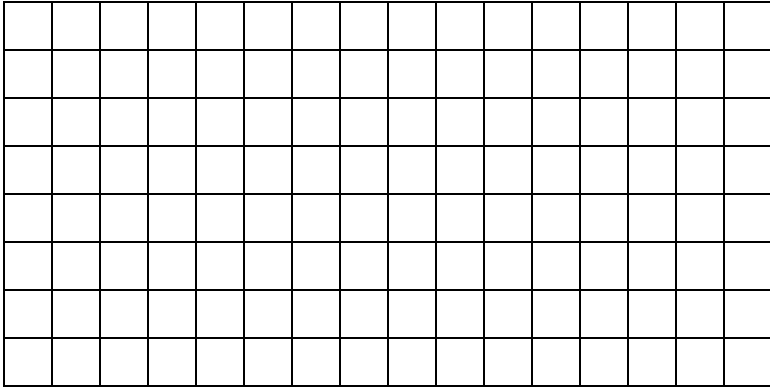
- Write an equation of the **given** function with these characteristics.
- Do all work on a separate paper. ANSWERS ONLY RECEIVE NO CREDIT

Amp	Direction From Starting Point	Period	Phase Shift	Vertical Shift	Equation
1. 1	Down	$4\pi$	0	+2	
2. 3	Up	$\pi$	$\frac{\pi}{2}$ left	0	
3. $\frac{1}{2}$	Down	$2\pi$	0	-3	
4. 1	Up	$\frac{\pi}{3}$	$\pi$ right	-1	

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sine-----

-----cosine-----

5. 2	Up	$3\pi$	$\pi$ left	0	
6. 5	Down	$2\pi$	$\frac{\pi}{4}$ left	0	
7. 1	Down	$\frac{\pi}{2}$	0	+6	
8. 2	Up	$\frac{\pi}{4}$	$\frac{\pi}{6}$ left	0	



II. Write an equation of the **cosine** function with these characteristics:

Amp	Direction From Starting Point	Period	Phase Shift	Vertical Shift	Equation
1. 3	Down	$\pi$	$\pi$ right	0	
2. 1	Down	$\frac{\pi}{2}$	0	+3	
3. 1	Up	$3\pi$	$\frac{\pi}{2}$ left	0	
4. 2	Down	$2\pi$	0	-1	
5. 5	Up	$\frac{\pi}{4}$	0	0	
6. 1	up	$2\pi$	$\frac{\pi}{3}$ left	0	
7. 2	Down	$\frac{\pi}{2}$	$\frac{3\pi}{2}$ right	+2	
8. 4	Up	$\pi$	$\frac{\pi}{4}$ right	-4	

Graph #4, 6, 8 on the attached sheet.