

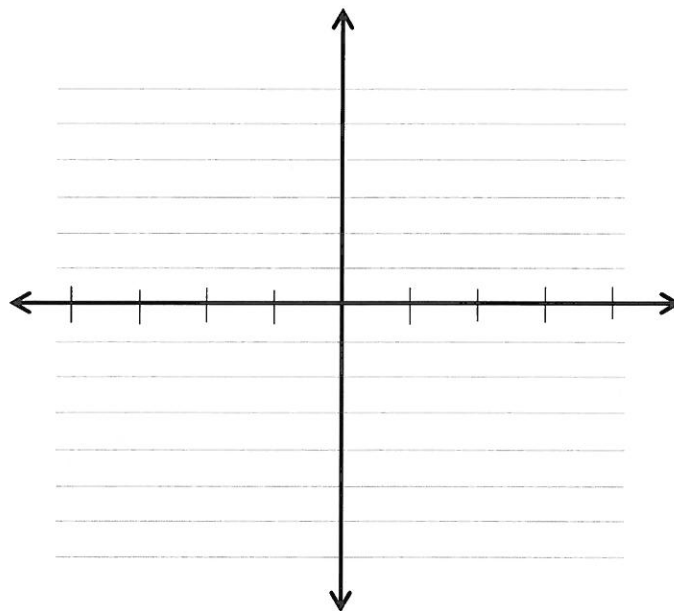
Name: _____ Per: _____ Date: _____
 Serafino • Algebra 2E

9B2 Graphing Sinusoids – ABD

NP = Natural Period of the parent function (it's 360 for all sinusoids)
 B or F = Frequency, the value of B. How many cycles the trig function completes in its natural period.
 P = Period How long it takes for THIS function to complete a cycle $P = \frac{NP}{B}$
 I = Increment The critical points of each function $I = \frac{P}{4}$

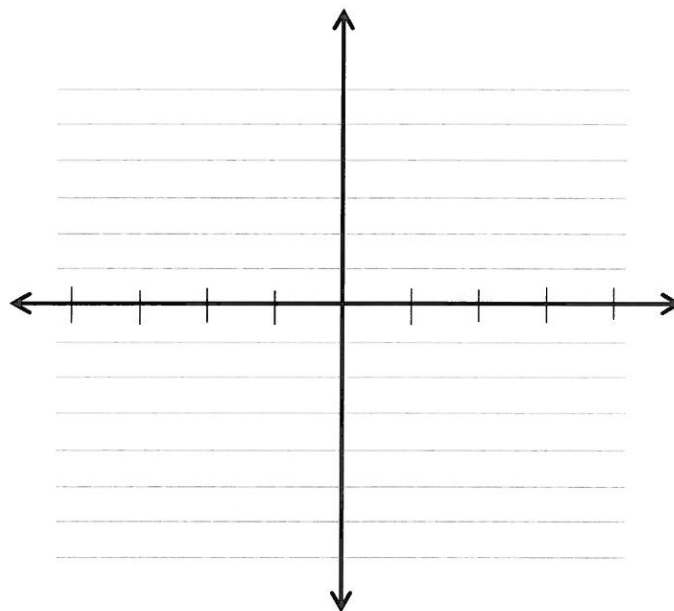
1. $y = 3 \sin(2x)$

A		SA	
F			
P			
I			
D			
R			



2. $y = \cos\left(\frac{1}{2}x\right) + 4$

A		SA	
F			
P			
I			
D			
R			



3. $y = -2 \sin\left(\frac{x}{3}\right) - 4$

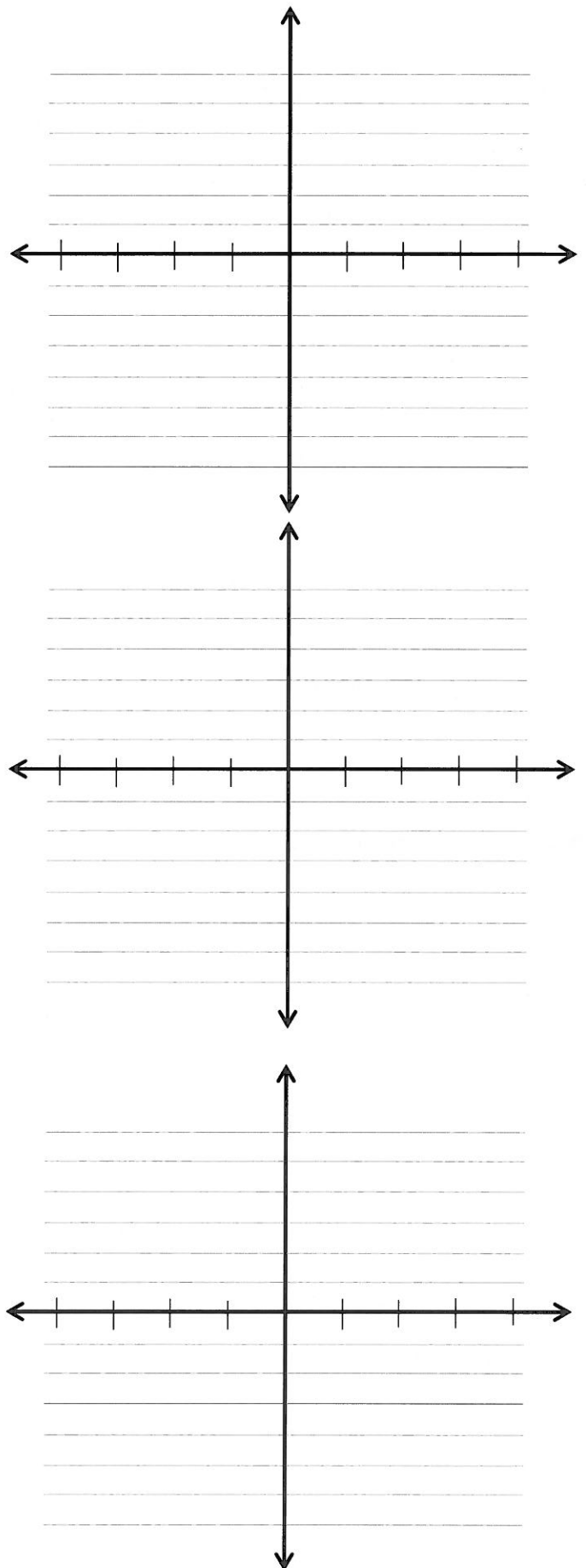
A		SA	
F			
P			
I			
D			
R			

4. $y = 4 \cos(6x)$

A		SA	
F			
P			
I			
D			
R			

5. $y = 3 + 2\cos(4x)$

A		SA	
F			
P			
I			
D			
R			



6. $y = -2 \sin(8x) - 1$

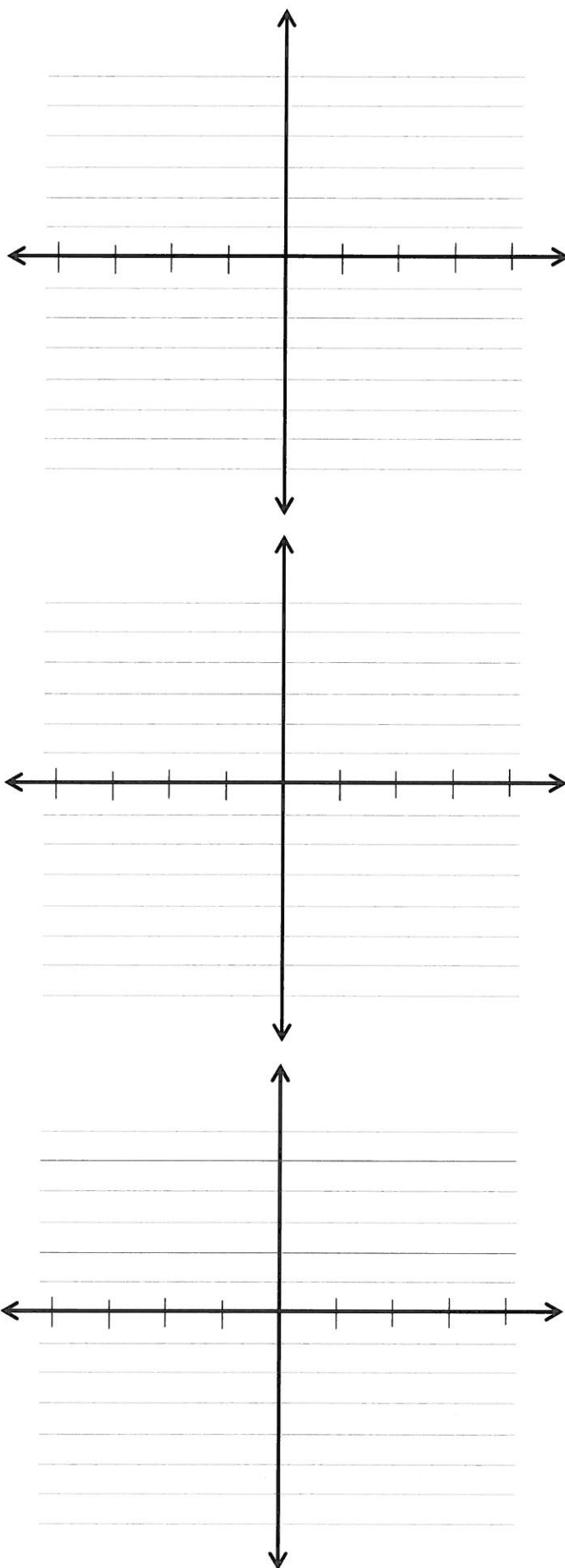
A		SA	
F			
P			
I			
D			
R			

7. $y = 5 \cos\left(\frac{x}{4}\right)$

A		SA	
F			
P			
I			
D			
R			

8. $y = 2\cos(5x) + 2$

A		SA	
F			
P			
I			
D			
R			



9. $y = -\sin(30x) + 2$

A		SA	
F			
P			
I			
D			
R			

10. $y = 5 \cos(10x)$

A		SA	
F			
P			
I			
D			
R			

11. $y = 4 - 2 \cos(180x)$

A		SA	
F			
P			
I			
D			
R			

