

Name: \_\_\_\_\_ Per: \_\_\_\_\_ Date: \_\_\_\_\_  
 Serafino ▪ Precalculus S1

### 4A Graphing Trig Functions – RADIANS (ABD)

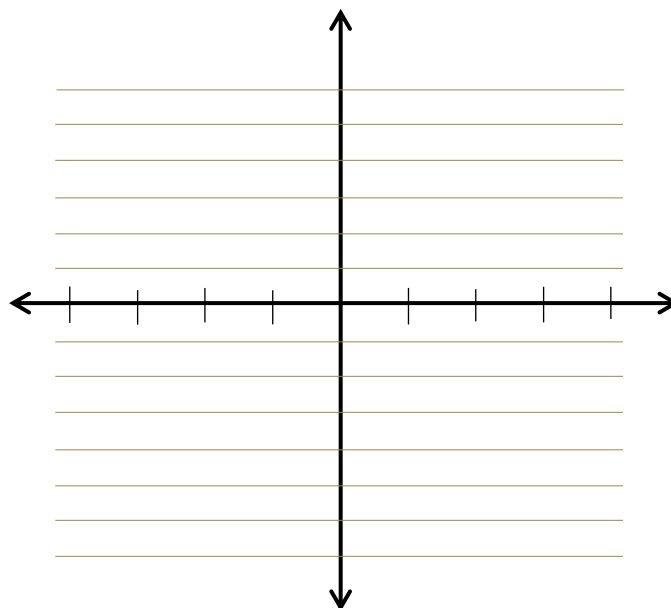
**F = Frequency** : The value of B. How many full cycles the trig function completes in its natural period.

**P = Period**: How long it takes for one cycle to complete. It's the natural period / frequency.  $P = \frac{NP}{B}$

**I = Increment**: The critical points of each function, occurring every 4<sup>th</sup> of a period.  $I = \frac{P}{4}$

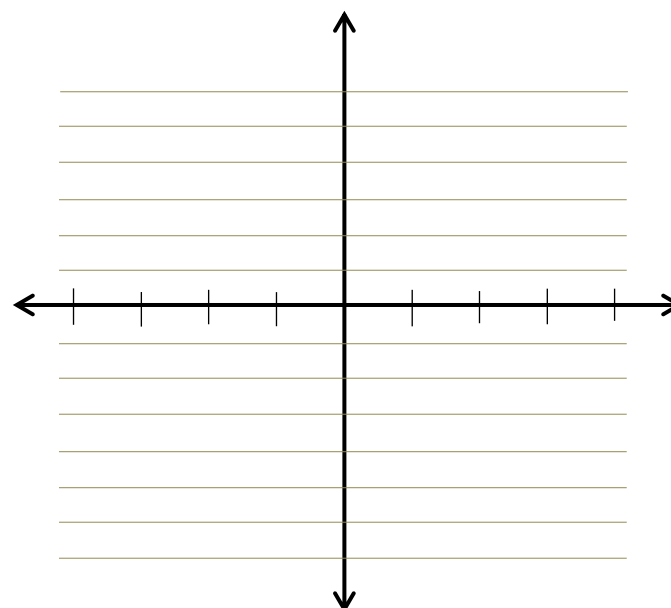
1.  $y = 3 \sin(2x)$

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

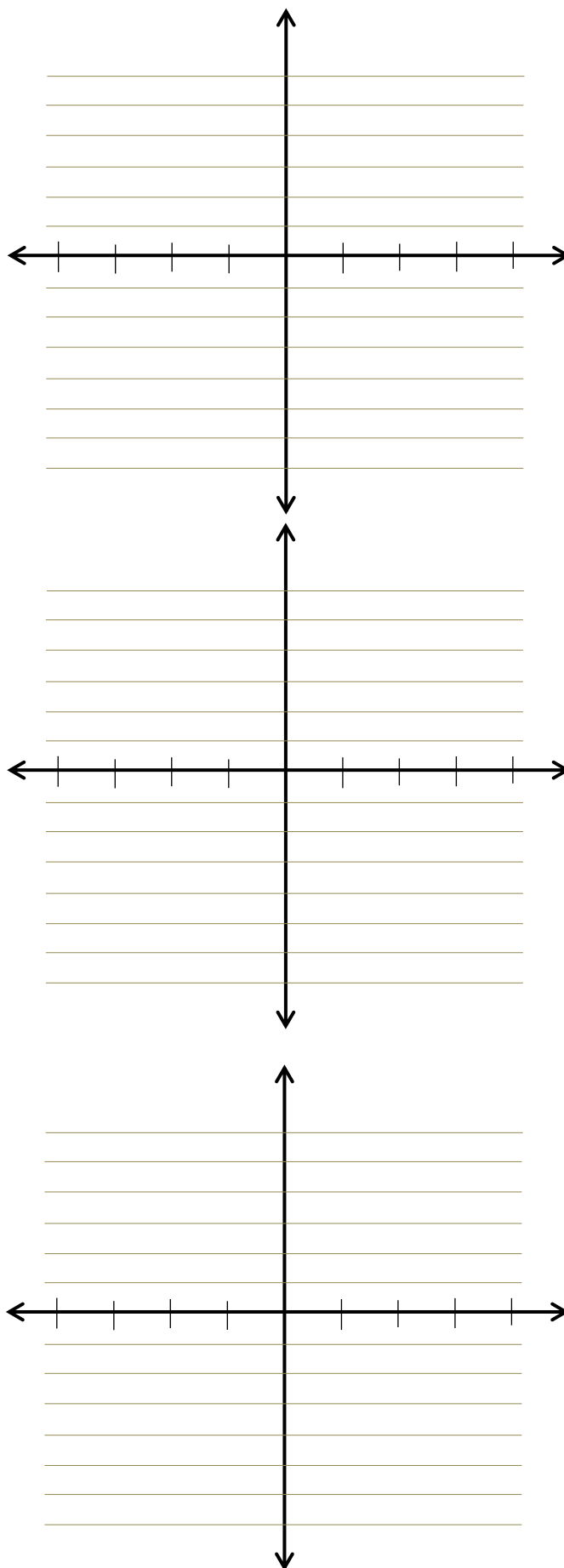
A		SA	
F			
P			
I			
D			
R			

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

A		SA	
F			
P			
I			
D			
R			

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

A		SA	
F			
P			
I			
D			
R			



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

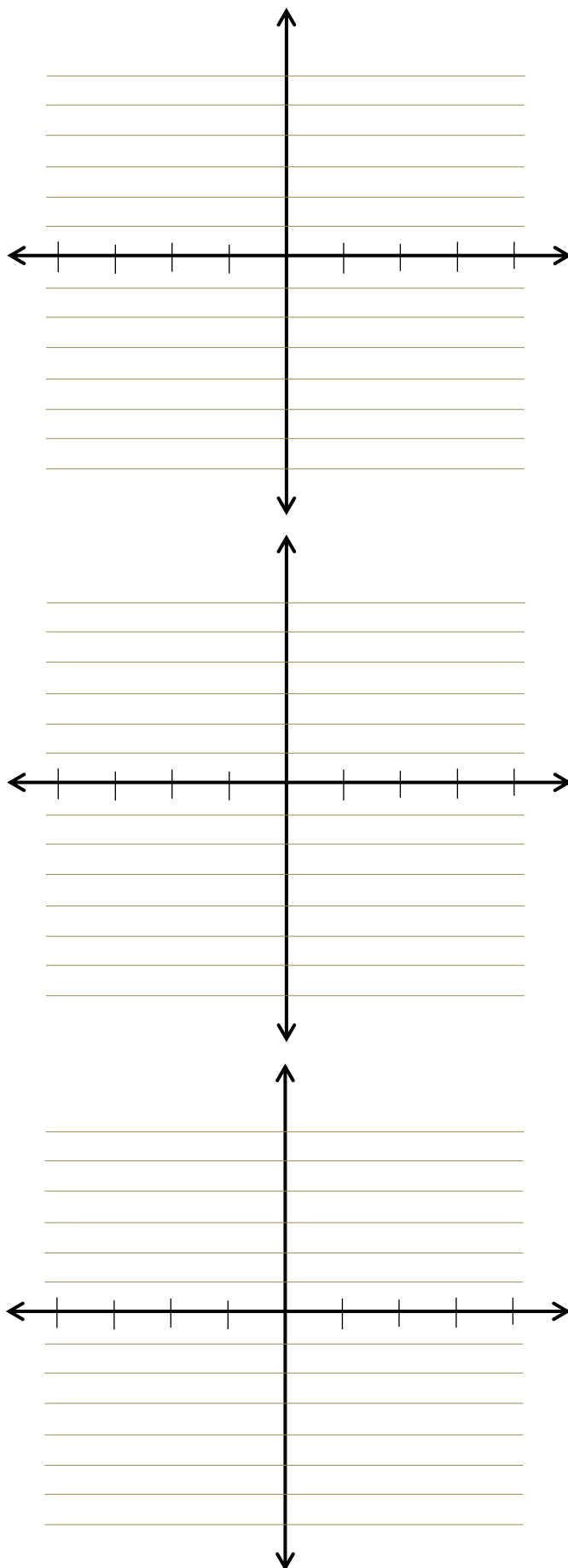
A		SA	
F			
P			
I			
D			
R			

7.  $y = 2 \cos\left(\frac{x}{3}\right)$

A		SA	
F			
P			
I			
D			
R			

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

A		SA	
F			
P			
I			
D			
R			



9.  $y = -\csc(\pi x) + 2$

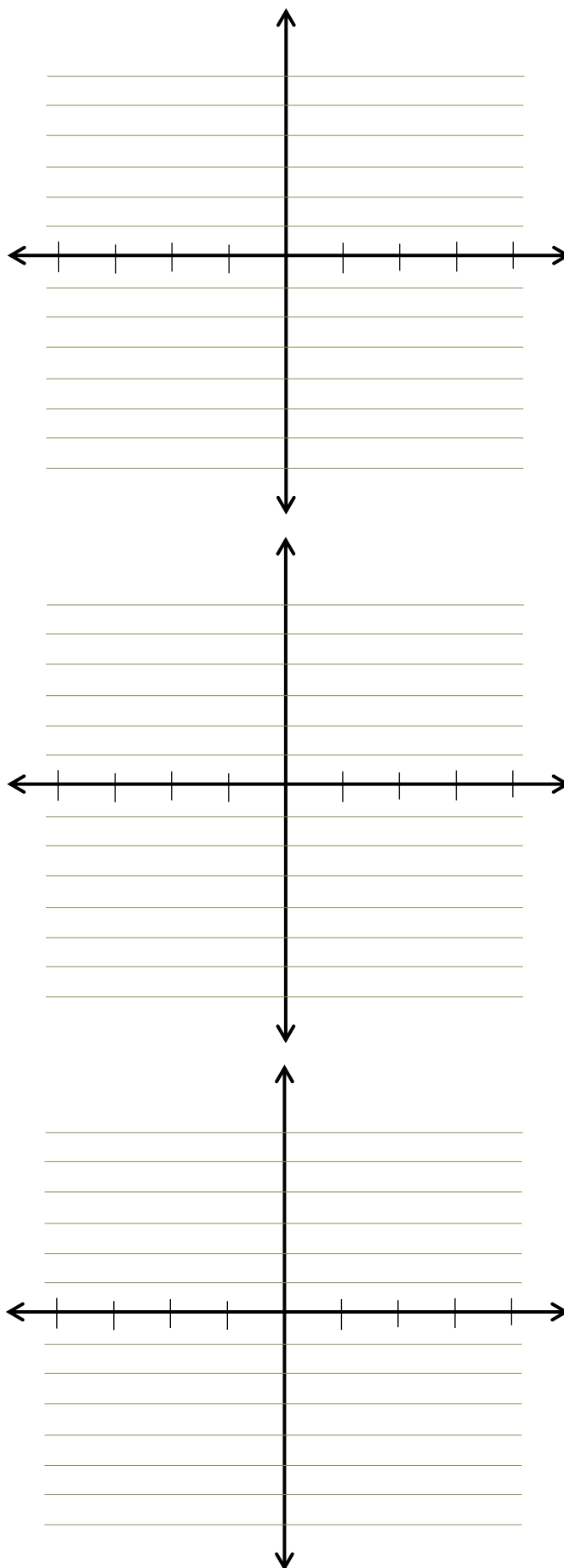
A		SA	
F			
P			
I			
D			
R			

10.  $y = 5 \cos\left(\frac{x}{6}\right)$

A		SA	
F			
P			
I			
D			
R			

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

A		SA	
F			
P			
I			
D			
R			



12.  $y = 2.5 \tan(2x)$

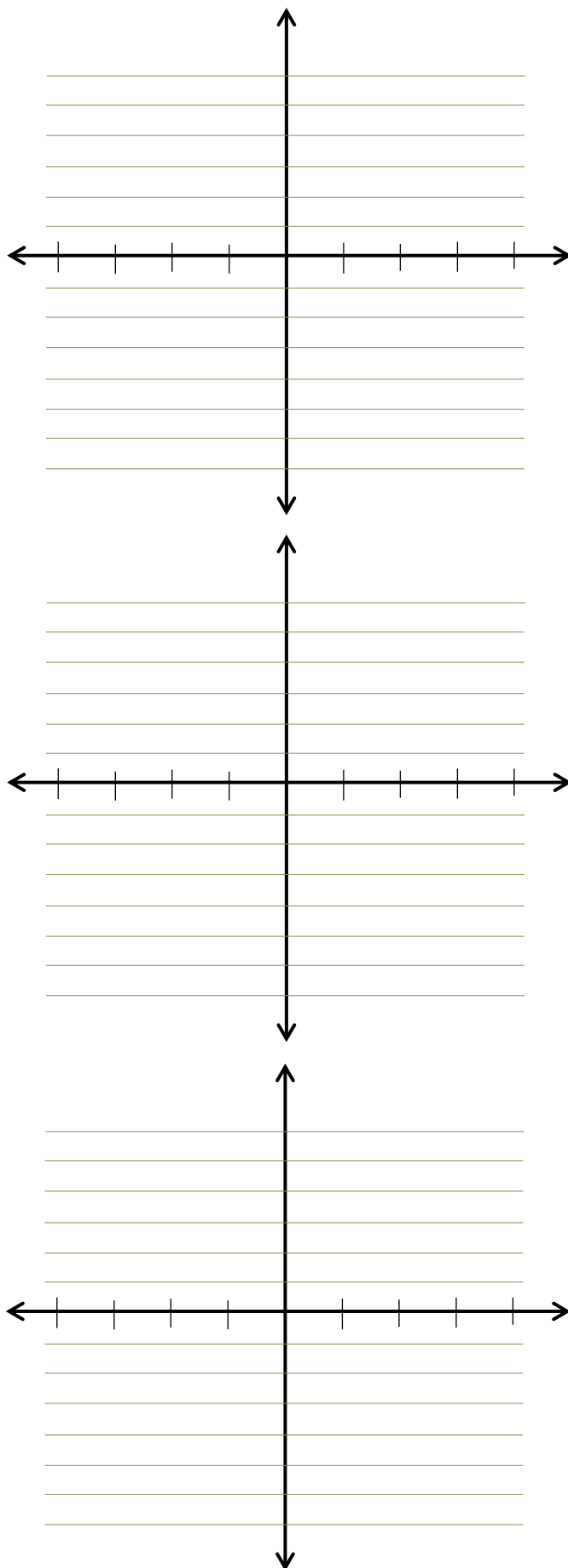
A		SA	
F			
P			
I			
D			
R			

13.  $y = \frac{1}{2} \cot\left(\frac{x}{2}\right) + 3$

A		SA	
B			
P			
I			
D			
R			

14.  $y = -4 \tan(3x) - 2$

A		SA	
F			
P			
I			
D			
R			



15.  $y = -\tan(\pi x) + 4$

A		SA	
F			
P			
I			
D			
R			

16.  $y = \cot\left(\frac{x}{5}\right) + 2$

A		SA	
F			
P			
I			
D			
R			

17.  $y = -\frac{5}{2}\cot(2x)$

A		SA	
F			
P			
I			
D			
R			

