

Name: _____
Serafino • Algebra 2E

Period : _____

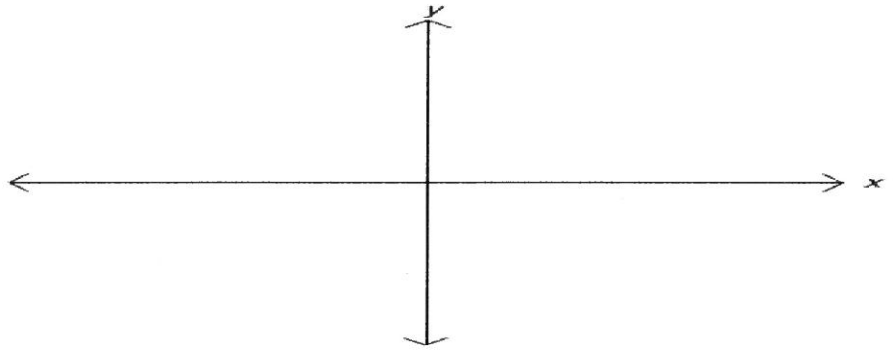
Date: _____

9B Graphs & Equations from Graphs

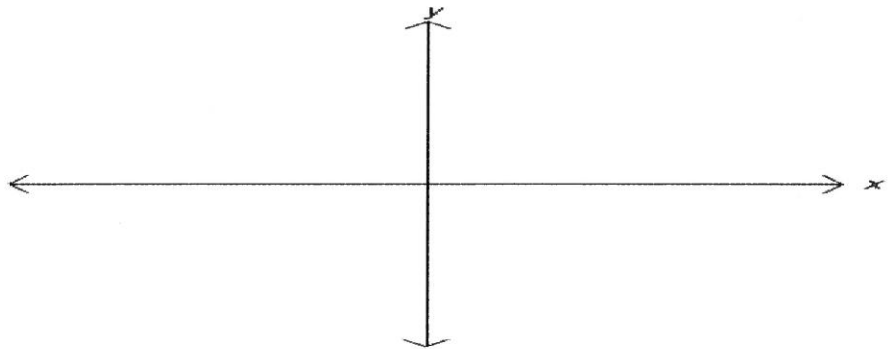
Review / Classwork

Graph one cycle of each function, labeling the SA, max, min & increments.

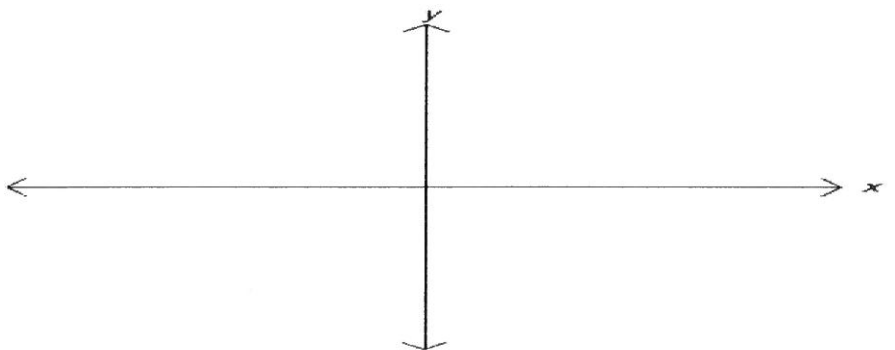
1. $f(x) = -2\sin(3x) + 4$



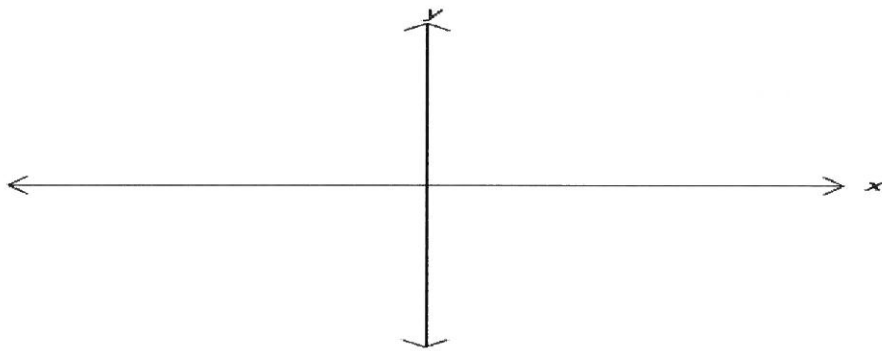
2. $f(x) = 3\sin(2x) - 1$



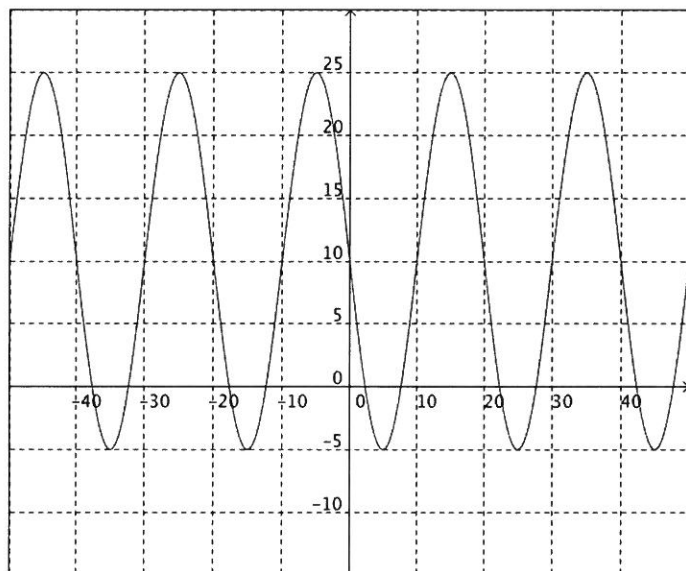
3. $f(x) = 3 + 3\cos(9x)$



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



5. Write an equation for the graph.



Name: Answer key
 Serafino • Algebra 2E

Period : _____ Date: _____

9B Graphs & Equations from Graphs

Review / Classwork

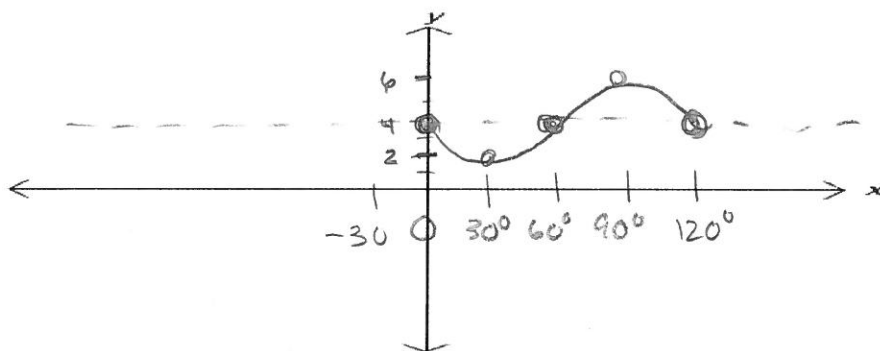
Graph one cycle of each function, labeling the SA, max, min & increments.

1. $f(x) = -2\sin(3x) + 4$

$$\frac{NP}{B} = P$$

$$\frac{360}{3} = 120^\circ$$

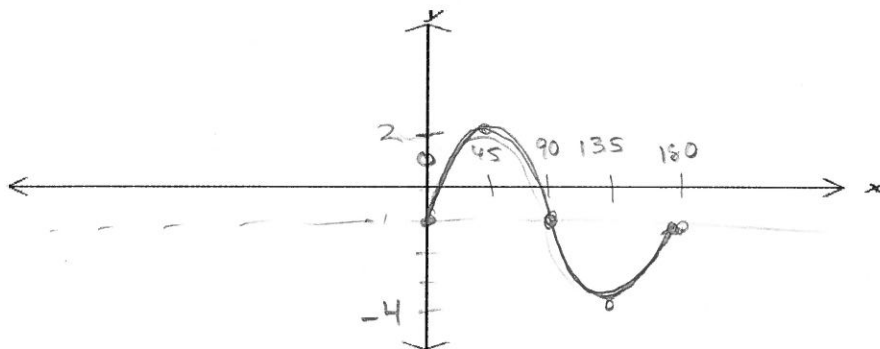
$$\frac{120}{4} = 30^\circ$$



2. $f(x) = 3\sin(2x) - 1$

$$\frac{360}{2} = 180^\circ$$

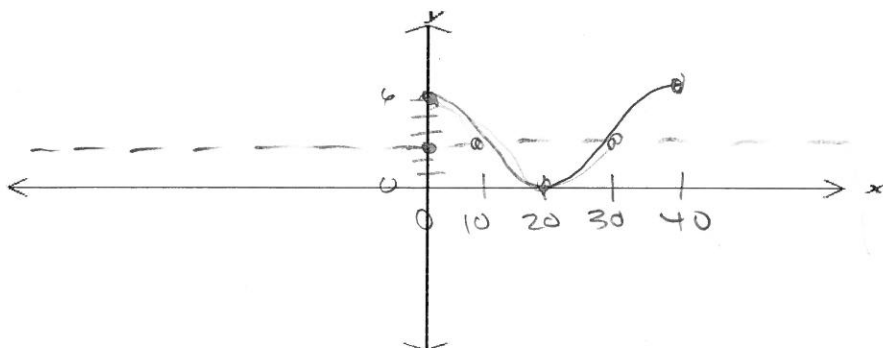
$$\frac{180}{4} = 45^\circ$$



3. $f(x) = 3 + 3\cos(9x)$

$$\frac{360}{9} = 40$$

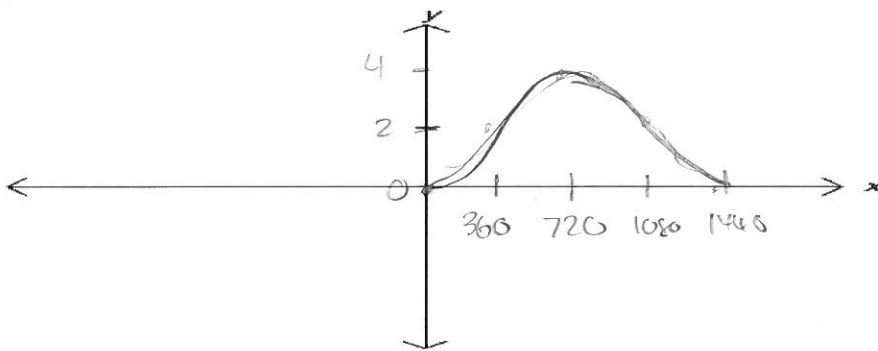
$$\frac{40}{4} = 10$$



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

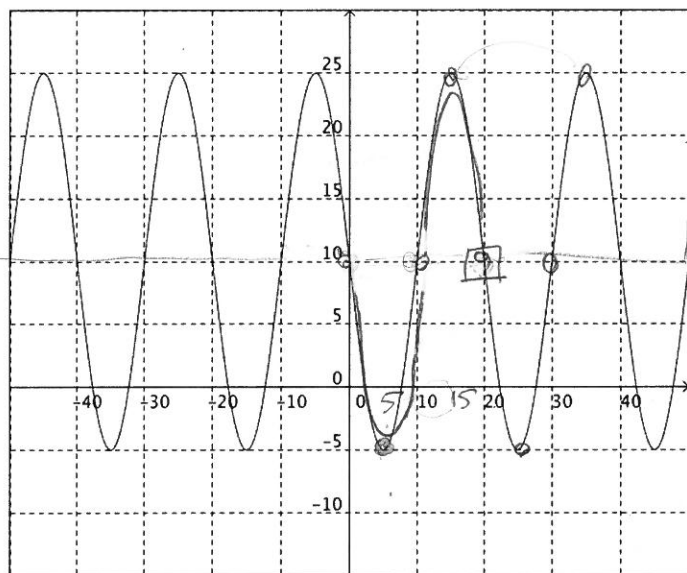
$$\frac{360}{1/4} = 1440$$

360



5. Write an equation for the graph.

$$y = a \sin(Bx) \pm d$$



$$y = -15 \sin(18x) + 10$$

Per: 20° $\frac{NP}{B} = P$

$$\frac{NP}{P} = B$$

$$\frac{360}{20} = 18^\circ$$