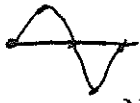
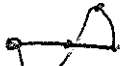


$$y = +\sin$$



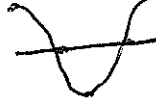
$$y = -\sin$$



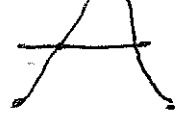
amp sin freq x shift

$$P = \frac{2\pi}{f}$$

$$y = +\cos$$



$$y = -\cos$$



Name

Mr. Schlansky

Schlansky

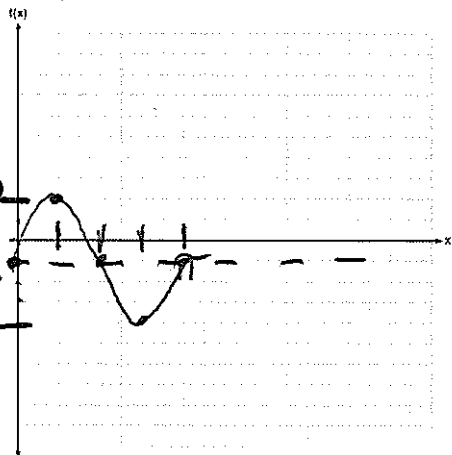
Date

Pre Calculus

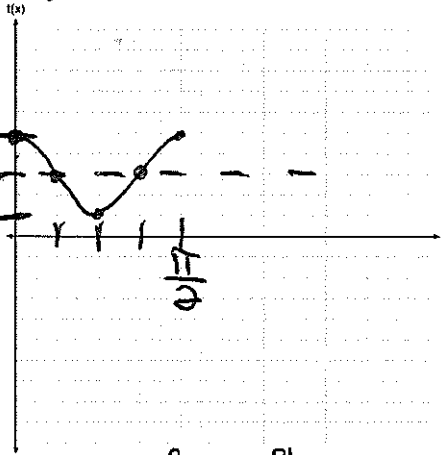
Graphing Sinusoidal Curves

Graph one full wave of the following trigonometric functions

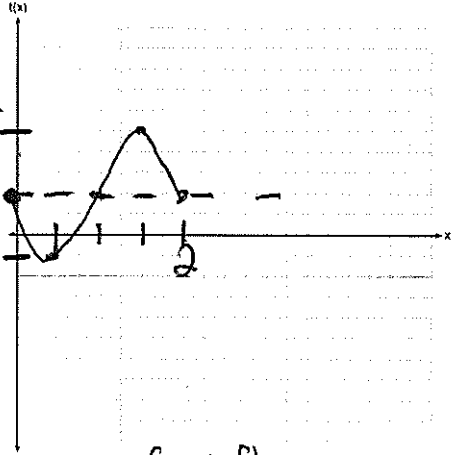
amp sin freq x shift
1. $y = 3 \sin 2x - 1$



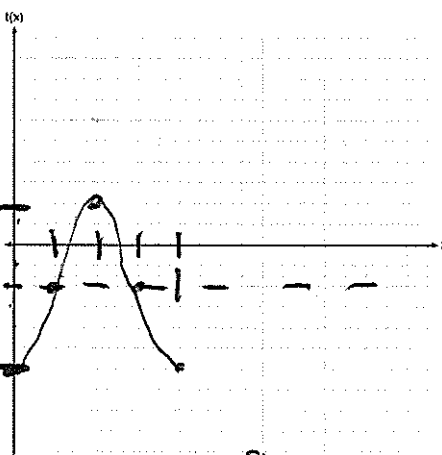
amp sin freq x shift
2. $y = 2 \cos 4x + 3$



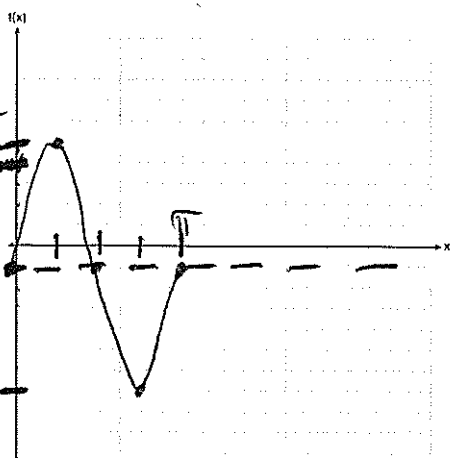
amp sin freq x shift
3. $y = -3 \sin \pi x + 2$



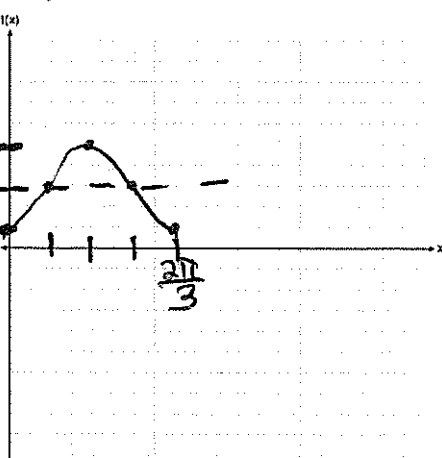
amp sin freq x shift
4. $y = -4 \cos 2\pi x - 2$



amp sin freq x shift
5. $y = 6 \sin 2x - 1$



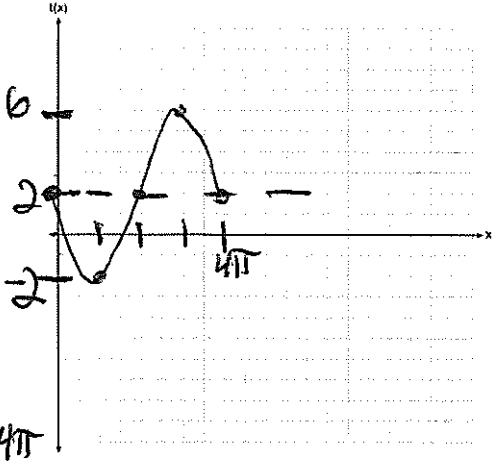
amp sin freq x shift
6. $y = -2 \cos 3x + 3$



amp sin freq shift

7. $y = -4 \sin \frac{1}{2}x + 2$

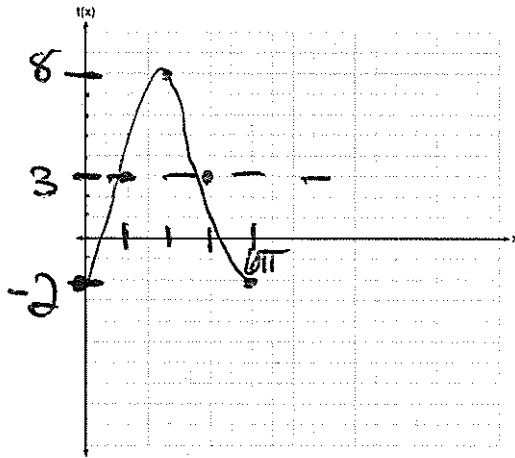
amp=4
-sin
freq= $\frac{1}{2}$
shift=2
 $P = \frac{2\pi}{\frac{1}{2}}$
 $\frac{2\pi}{1} \cdot 2 = 4\pi$



amp sin freq shift

8. $y = -5 \cos \frac{1}{3}x + 3$

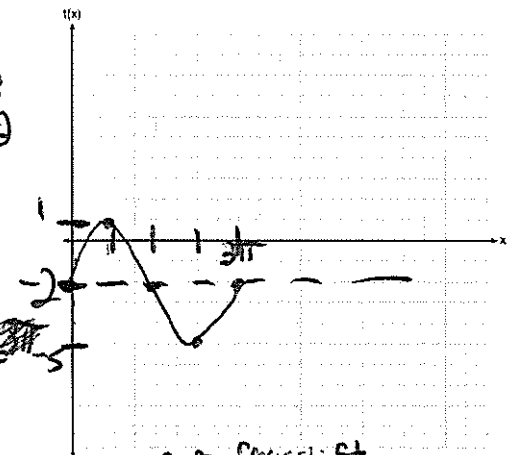
amp=5
-cos
freq= $\frac{1}{3}$
shift=3
 $P = \frac{2\pi}{\frac{1}{3}}$
 $\frac{2\pi}{1} \cdot 3 = 6\pi$



amp sin freq shift

9. $y = 3 \sin \frac{2}{3}x - 2$

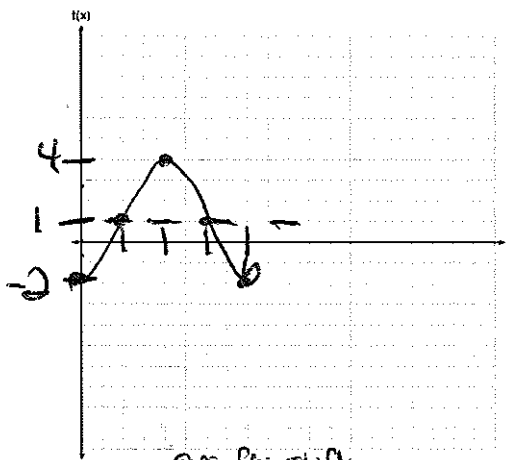
amp=3
+sin
freq= $\frac{2}{3}$
shift=-2
 $P = \frac{2\pi}{\frac{2}{3}}$
 $\frac{2\pi}{1} \cdot \frac{3}{2} = 3\pi$



amp sin freq shift

10. $y = -3 \cos \frac{\pi}{3}x + 1$

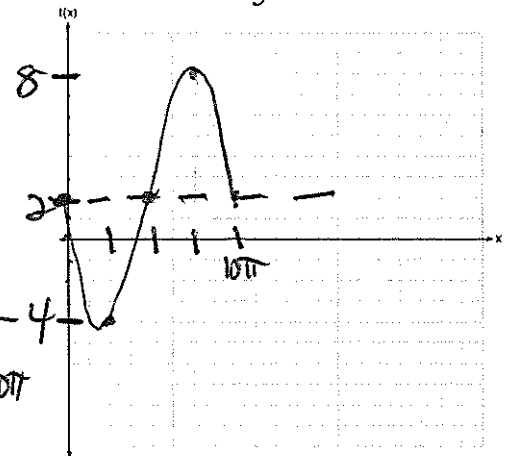
amp=3
-cos
freq= $\frac{\pi}{3}$
shift=1
 $P = \frac{2\pi}{\frac{\pi}{3}}$
 $\frac{2\pi}{1} \cdot 3 = 6$



amp sin freq shift

11. $y = -6 \sin \frac{1}{5}x + 2$

amp=6
-sin
freq= $\frac{1}{5}$
shift=2
 $P = \frac{2\pi}{\frac{1}{5}}$
 $\frac{2\pi}{1} \cdot 5 = 10\pi$



amp sin freq shift

12. $y = -5 \sin \frac{\pi}{6}x + 2$

amp=5
-sin
freq= $\frac{\pi}{6}$
shift=2
 $P = \frac{2\pi}{\frac{\pi}{6}}$
 $\frac{2\pi}{1} \cdot 6 = 12$

