

1. $y = 3 \sin 4x$ $P = \frac{2\pi}{4}$ $P = \frac{\pi}{2}$ Amp: 3 Reflect: none Period: $\frac{\pi}{2}$ Scale: $\frac{\pi}{8}$ Translation: none	2. $y = -\frac{1}{2} \cos x$ Amp: $\frac{1}{2}$ Reflect: yes Period: 2π Scale: $\frac{\pi}{4}$ Translation: none
3. $y = -5 \sin \frac{1}{3}x$ $P = \frac{2\pi}{\frac{1}{3}}$ $P = 6\pi$ Amp: 5 Reflect: yes Period: 6π Scale: $\frac{3\pi}{2}$ Translation: none	4. $g(x) = 2.5 \sin x$ Amp: 2.5 Reflect: none Period: 2π Scale: $\frac{\pi}{2}$ Translation: none
5. $g(x) = -2 \cos x$ Amp: 2 Reflect: yes Period: 2π Scale: $\frac{\pi}{2}$ Translation: none	6. $f(x) = \cos \frac{x}{8}$ $P = \frac{2\pi}{\frac{1}{8}}$ $P = 16\pi$ Amp: none (so 1) Reflect: none Period: 16π Scale: 4π Translation: none
7. $y = 2 \sin(4x + \frac{\pi}{4})$ $y = 2 \sin 4(x + \frac{\pi}{16})$ $P = \frac{2\pi}{4}$ Amp: 2 Reflect: none Period: $\frac{\pi}{2}$ Scale: $\frac{\pi}{8}$ Translation: $\frac{\pi}{16}$	8. $y = 4 \cos(\frac{x}{3} + \frac{\pi}{6})$ $y = 4 \cos \frac{1}{3}(x + \frac{\pi}{2})$ $P = \frac{2\pi}{\frac{1}{3}}$ $P = 6\pi$ Amp: 4 Reflect: none Period: 6π Scale: $\frac{3\pi}{2}$ Translation: $\frac{\pi}{2}$
9. $y = \sin(x + \pi) + 1$ Amp: none Reflect: none Period: 2π Scale: $\frac{\pi}{4}$ Translation: π	10. $y = 3 \sin(4x - \frac{\pi}{2}) + 1$ $y = 3 \sin 4(x - \frac{\pi}{8}) + 1$ $P = \frac{2\pi}{4}$ Amp: 3 Reflect: none Period: $\frac{\pi}{2}$ Scale: $\frac{\pi}{8}$ Translation: $\frac{\pi}{8}$

1. $y = 3 \sin 4x$

$P = \frac{2\pi}{4}$

$a = 3$

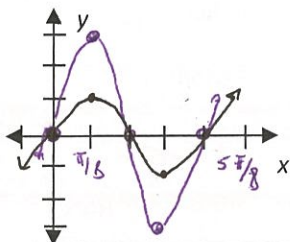
$b = 4$

$P = \pi/2$

$Sc = \pi/8$

$h = -$

$k = -$



2. $y = -\frac{1}{2} \cos x$

$a = \frac{1}{2}$

$a = \frac{1}{2}$

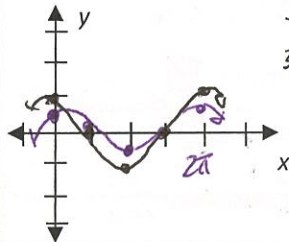
$b = 1$

$P = 2\pi$

$Sc = \pi/2$

$h = -$

$k = -$



x	y	x	y
0	1	0	1/2
pi/2	0	pi/2	0
pi	-1	pi	-1/2
3pi/2	0	3pi/2	0
2pi	1	2pi	1/2

3. $y = -5 \sin \frac{1}{3}x$

$P = \frac{2\pi}{1/3}$

$a = -5$

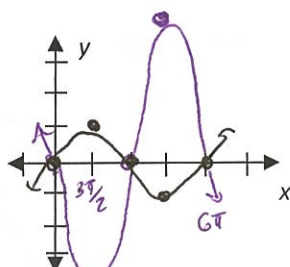
$b = 1/3$

$P = 6\pi$

$Sc = 3\pi/2$

$h = -$

$k = -$



4. $g(x) = 2.5 \sin x$

$a = 2.5$

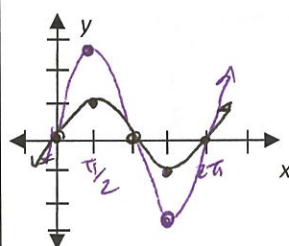
$b = 1$

$P = 2\pi$

$Sc = \pi/2$

$h = -$

$k = -$



5. $g(x) = -2 \cos x$

$a = -2$

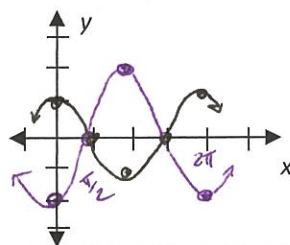
$b = 1$

$P = 2\pi$

$Sc = \pi/2$

$h = -$

$k = -$



6. $f(x) = \cos \frac{x}{8}$

$P = \frac{2\pi}{1/8}$

$a = 1$

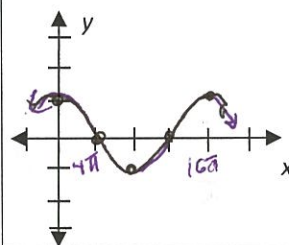
$b = 1/8$

$P = 16\pi$

$Sc = 4\pi$

$h = -$

$k = -$



7. $y = 2 \sin(4x + \frac{\pi}{4})$

$y = 2 \sin 4(x + \frac{\pi}{16})$

$P = \frac{2\pi}{4}$

$a = 2$

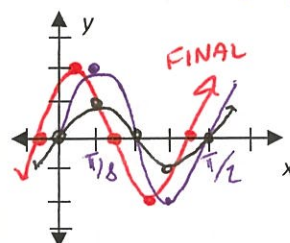
$b = 4$

$P = \pi/2$

$Sc = \pi/8$

$h = L\pi/16$

$k = -$



8. $y = 4 \cos(\frac{x}{3} + \frac{\pi}{6})$

$y = 4 \cos \frac{1}{3}(x + \frac{\pi}{2})$

$P = \frac{2\pi}{1/3}$

$a = 4$

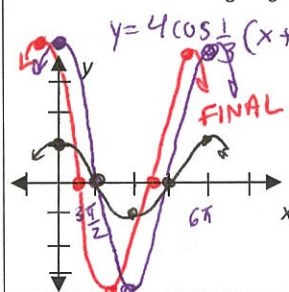
$b = 1/3$

$P = 6\pi$

$Sc = 3\pi/2$

$h = L\pi/2$

$k = -$



9. $y = \sin(x + \pi) + 1$

$a = 1$

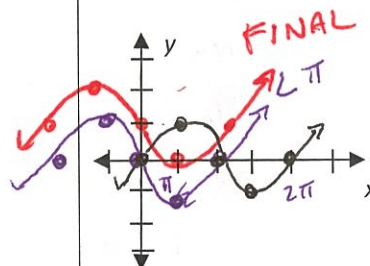
$b = 1$

$P = 2\pi$

$Sc = \pi/2$

$h = L\pi$

$k = 0$



10. $y = 3 \sin(4x - \frac{\pi}{2}) + 1$

$y = 3 \sin 4(x - \frac{\pi}{8}) + 1$

$P = \frac{2\pi}{4}$

$a = 3$

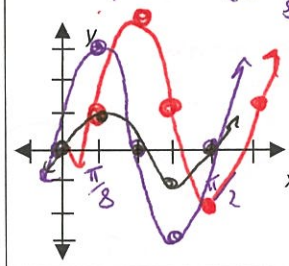
$b = 4$

$P = \pi/2$

$Sc = \pi/8$

$h = 2\pi/8$

$k = 0$



x	y
0	1
pi/2	0
pi	-1
3pi/2	0