**Continue**

144951963738 56383631.117647 150248038875 119261881640 13185943414 13576910144 10670814.133333 85166965.571429 5795750870 3281788.3516484 9167934.0483871 110723075782 13410511.702128 36416020.911111 27347744110 103218459318 64367808.904762 5815546660 37147484980 15236606.185714 8170603804  
4572414.7540984 13664426.735294 39208997400 17604584328 72136500300 51888696.709677 17723361.548387 49938401.275862 31326690.965517 34017432182 11396193.672131 50828368734 12613655.506024 175356085.3333

9. Amplitude = $\frac{1}{2}$	Period = $\pi$	Phase Shift = 0	Vertical Shift = 0
$\frac{2\pi}{b} = \pi$ $b = 2$	$O = -\frac{c}{2}$ $C = 0$	$y = O \pm \frac{1}{2} \cos(2x + O)$	
10. Amplitude = 5	Period = 3	Phase Shift = -1	Vertical Shift = -4
$\frac{2\pi}{b} = 3$ $b = \frac{2\pi}{3}$	$O = -\frac{c}{2} = -1$ $C = \frac{2\pi}{3}$	$y = -4 \pm 5 \cos(\frac{2\pi}{3}x + \frac{2\pi}{3})$	

11. Amplitude = 1	Period = $\frac{\pi}{4}$	Phase Shift = 1	Vertical Shift = -2
$\frac{2\pi}{b} = \frac{\pi}{4}$ $b = 8$	$O = -\frac{c}{2} = 1$ $\pi b = 8\pi$	$y = -2 \pm \cos(8x - 8)$	

State the amplitude, period, phase shift, asymptotes and vertical shift for each of the following.

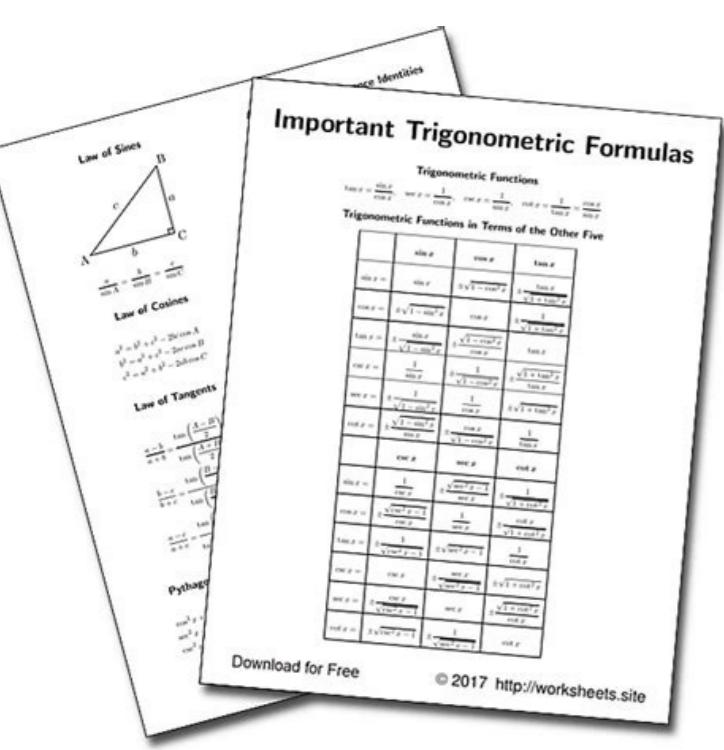
12. $y = \frac{1}{2} \sec(\frac{x}{4})$	Amplitude: None	Period: $8\pi$	Phase Shift: 0	Vertical Shift: 0	Asymptotes:
Key Points: $(0, \frac{1}{2}), (2\pi, 0), (4\pi, \frac{1}{2}), (6\pi, 0), (8\pi, \frac{1}{2})$	Graph:				
13. $y = 1 + 2 \csc(\pi x - 3)$	Amplitude: none	Period: 2	Phase Shift: $\frac{3}{\pi}$	Vertical Shift: 1	Asymptotes: $x = \frac{3}{\pi}, x = \frac{3}{\pi} + 1, x = \frac{3}{\pi} + 2$
Key Points: $(\frac{3}{\pi}, -\infty), (\frac{3}{\pi} + \frac{1}{2}, 3), (\frac{3}{\pi} + 1, 1), (\frac{3}{\pi} + \frac{3}{2}, -\infty)$	Graph:				
14. $y = 3 - 2 \sec(\frac{\pi}{2}x + \frac{\pi}{4})$	Amplitude: none	Period: 4	Phase Shift: $-\frac{1}{2}$	Vertical Shift: 3	Asymptotes: $x = \frac{\pi}{2}, x = \frac{\pi}{2} + 2$
Key Points: $(-\frac{1}{2}, 1), (\frac{1}{2}, 5), (\frac{3}{2}, 1), (\frac{5}{2}, 5)$	Graph:				

Write the equation of the trigonometric function for the given graph.

15. $y = 3 - 2 \sin(4x - \pi)$	Amplitude: 2	Period: $\frac{\pi}{2}$	Phase Shift: $\frac{\pi}{4}$	Vertical Shift: 3	Asymptotes: $x = \frac{\pi}{2}, x = \frac{\pi}{2} + 2$
$A = 2, P = \frac{\pi}{2}, PS = \frac{\pi}{4}, VS = 3$	$\frac{2\pi}{b} = \frac{\pi}{2}, \pi b = 4, b = 4, c = -\pi$				

16. $y = \frac{1}{4} \cos(x + \frac{2\pi}{3})$	Amplitude: $\frac{1}{4}$	Period: $2\pi$	Phase Shift: $-\frac{2\pi}{3}$	Vertical Shift: 0	Asymptotes: $x = \frac{2\pi}{3}, x = \frac{2\pi}{3} + 2\pi$
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Pythagorean identities:  $\sin^2 \theta + \cos^2 \theta = 1$   
 $\tan^2 \theta + 1 = \sec^2 \theta$   
 $1 + \cot^2 \theta = \csc^2 \theta$   
Reciprocal identities:  $\csc x = \frac{1}{\sin x}$   
 $\sec x = \frac{1}{\cos x}$   
 $\csc x = \frac{1}{\sec x}$   
 $\cot x = \frac{1}{\tan x}$   
Even-odd identities:  $\sin(-x) = -\sin x$   
 $\cos(-x) = \cos x$   
 $\tan(-x) = -\tan x$   
Product to sum formulas:  $\sin x \sin y = \frac{1}{2} [\cos(x-y) - \cos(x+y)]$   
 $\cos x \cos y = \frac{1}{2} [\cos(x-y) + \cos(x+y)]$   
 $\sin x \cos y = \frac{1}{2} [\sin(x+y) + \sin(x-y)]$   
 $\cos x \sin y = \frac{1}{2} [\sin(x+y) - \sin(x-y)]$   
Sum to product formulas:  $\sin x \pm \sin y = 2 \sin \frac{x+y}{2} \cos \frac{x-y}{2}$   
 $\cos x \pm \cos y = 2 \cos \frac{x+y}{2} \cos \frac{x-y}{2}$   
 $\cos x \pm \cos y = 2 \sin \frac{x+y}{2} \sin \frac{x-y}{2}$   
Double angle formulas:  $\sin 2\theta = 2 \sin \theta \cos \theta$   
 $\cos 2\theta = \cos^2 \theta - \sin^2 \theta = 1 - 2 \sin^2 \theta = 2 \cos^2 \theta - 1$   
 $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$   
 $\sin 2\theta = \sin^2 \theta + \cos^2 \theta = 1$   
 $\cos 2\theta = 2 \cos^2 \theta - 1 = 1 - 2 \sin^2 \theta$   
 $\tan 2\theta = \frac{2 \tan \theta}{1 + \tan^2 \theta}$   
 $\sin^2 \theta + \cos^2 \theta = 1$   
 $\tan^2 \theta + 1 = \sec^2 \theta$   
 $1 + \cot^2 \theta = \csc^2 \theta$   
 $\sin(x+2\pi) = \sin x$   
 $\cos(x+2\pi) = \cos x$   
 $\tan(x+2\pi) = \tan x$   
 $\sin(x+\pi) = -\sin x$   
 $\cos(x+\pi) = -\cos x$   
 $\tan(x+\pi) = \tan x$   
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 $\sin(x+y) = \$



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