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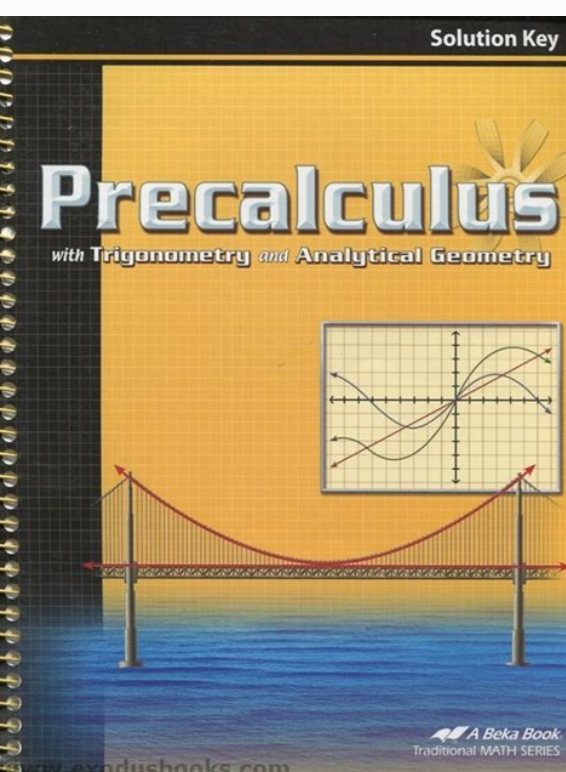
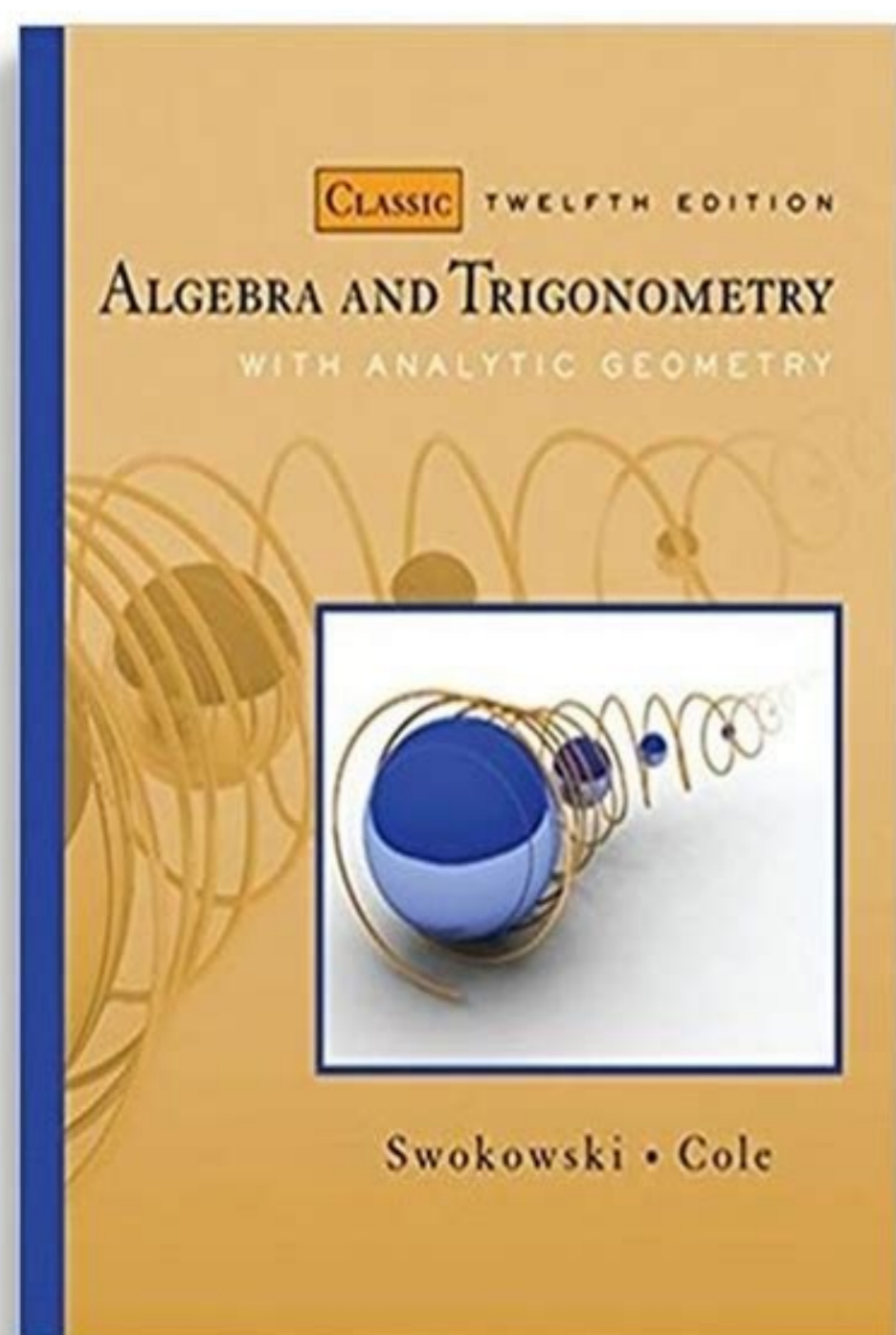
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θ	rad	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$
30	$\frac{\pi}{6}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$	2	$\frac{2\sqrt{3}}{3}$	$\sqrt{3}$
45	$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1	$\sqrt{2}$	$\sqrt{2}$	1
60	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$	$\frac{2\sqrt{3}}{3}$	2	$\frac{\sqrt{3}}{3}$
90	$\frac{\pi}{2}$	1	0	und	und	und	0
150	$\frac{2\pi}{3}$	0	-1	0	und	-1	und
270	$\frac{3\pi}{2}$	-1	0	und	-1	und	0
360	2π	0	1	0	und	1	und

Reference angle	θ	$\sin \theta$	$\cos \theta$
Q1	θ	$\sin \theta$	$\cos \theta$
Q2	$180 - \theta$	$\sin \theta$	$-\cos \theta$
Q3	$180 + \theta$	$-\sin \theta$	$-\cos \theta$
Q4	$360 - \theta$	$-\sin \theta$	$\cos \theta$

$r = \sqrt{x^2 + y^2}$

$\sin \theta = \frac{y}{r}$ $\csc \theta = \frac{r}{y}$

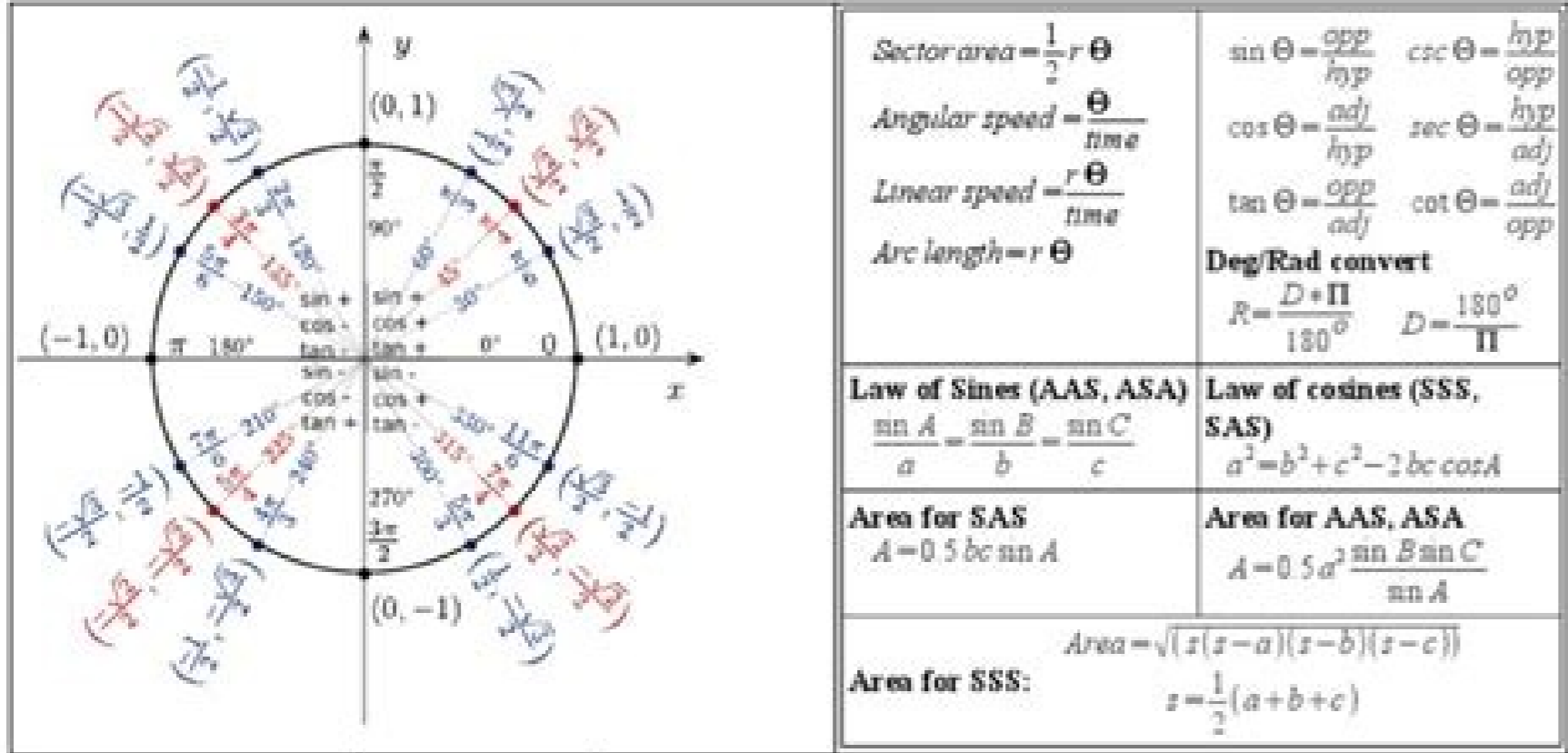
$\cos \theta = \frac{x}{r}$ $\sec \theta = \frac{r}{x}$

$\tan \theta = \frac{y}{x}$ $\cot \theta = \frac{x}{y}$

graph of $\sin x$
 range $\rightarrow [-1, 1]$
 period $\rightarrow [0, 2\pi]$
 domain $\rightarrow \mathbb{R}$

graph of $\cos x$
 range $\rightarrow [-1, 1]$
 period $\rightarrow [0, 2\pi]$
 domain $\rightarrow \mathbb{R}$

* If function satisfy
 $f(-x) = f(x) \rightarrow$ even
 $f(-x) = -f(x) \rightarrow$ odd



$Sector\ area = \frac{1}{2}r\theta$ $Angular\ speed = \frac{\theta}{time}$ $Linear\ speed = r\frac{\theta}{time}$ $Arc\ length = r\theta$	$\sin \theta = \frac{opp}{hyp}$ $\cos \theta = \frac{adj}{hyp}$ $\tan \theta = \frac{opp}{adj}$ $csc \theta = \frac{hyp}{opp}$ $sec \theta = \frac{hyp}{adj}$ $cot \theta = \frac{adj}{opp}$
Law of Sines (AAS, ASA) $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$	Law of cosines (SSS, SAS) $a^2 = b^2 + c^2 - 2bc \cos A$
Area for SAS $A = 0.5 bc \sin A$	Area for AAS, ASA $A = 0.5 a^2 \frac{\sin B \sin C}{\sin A}$
Area for SSS: $Area = \sqrt{s(s-a)(s-b)(s-c)}$ $s = \frac{1}{2}(a+b+c)$	

Graphing trig functions: $y = a \sin(bx + c) + d$ $a \neq 0, b \neq 0$ Amplitude: $ a $ Period: $\frac{2\pi}{b}$ Frequency: $\frac{1}{period}$ Phase shift: $-\frac{c}{ b }$ Midline: $y = d$	Ambiguous case (SSA): $h = b \sin A$ $a = opp$ $b = adj$ If $a < h$: No solution If $a = h$: One solution If $a > h$: Two solutions	If a is acute: $a < b$ $a < h$ =No solution $a < b$ $a = h$ =One solution $a < b$ $a > h$ =Two solutions $a \geq b$ =One solution
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Pythagorean identities $\sin^2 \theta + \cos^2 \theta = 1$ $\tan^2 \theta + 1 = \sec^2 \theta$ $\cot^2 \theta + 1 = \csc^2 \theta$	Sum identities $\cos(a+b) = \cos a \cos b - \sin a \sin b$ $\sin(a+b) = \sin a \cos b + \cos a \sin b$ $\tan(a+b) = \frac{\tan a + \tan b}{1 - \tan a \tan b}$
Confunction identities $\sin \theta = \cos(\frac{\pi}{2} - \theta)$ $\tan \theta = \cot(\frac{\pi}{2} - \theta)$ $\sec \theta = \csc(\frac{\pi}{2} - \theta)$ $\cos \theta = \sin(\frac{\pi}{2} - \theta)$ $\cot \theta = \tan(\frac{\pi}{2} - \theta)$ $\csc \theta = \sec(\frac{\pi}{2} - \theta)$	Difference identities $\cos(a-b) = \cos a \cos b + \sin a \sin b$ $\sin(a-b) = \sin a \cos b - \cos a \sin b$ $\tan(a-b) = \frac{\tan a - \tan b}{1 + \tan a \tan b}$
Odd-Even Identities $\sin(-\theta) = -\sin \theta$ $\cos(-\theta) = \cos \theta$ $\tan(-\theta) = -\tan \theta$ $\csc(-\theta) = -\csc \theta$ $\sec(-\theta) = \sec \theta$ $\cot(-\theta) = -\cot \theta$	Double angle identities $\sin 2\theta = 2 \sin \theta \cos \theta$ $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$ $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$ $\cos 2\theta = 2 \cos^2 \theta - 1$ $\cos 2\theta = 1 - 2 \sin^2 \theta$
Power-Reducing Identities $\sin^2 \theta = \frac{1 - \cos 2\theta}{2}$ $\cos^2 \theta = \frac{1 + \cos 2\theta}{2}$ $\tan^2 \theta = \frac{1 - \cos 2\theta}{1 + \cos 2\theta}$	Binomial probability $Prob = {}^n C_r p^r q^{n-r}$ n independent trials, p probability of success, $q = 1 - p$

Sigma notation	nth term of arith. seq.	Sum of arith. series	Sum of arith. series	nth term of geo. seq.
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