

Formula Sheet for Pre-Calculus

Pythagorean Identities:

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

Co-function identities:

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos \theta \qquad \cos\left(\frac{\pi}{2} - \theta\right) = \sin \theta$$

$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec \theta \qquad \tan\left(\frac{\pi}{2} - \theta\right) = \cot \theta$$

$$\sec\left(\frac{\pi}{2} - \theta\right) = \csc \theta \qquad \cot\left(\frac{\pi}{2} - \theta\right) = \tan \theta$$

Even/odd Identities:

$$\sin(-\theta) = -\sin \theta \qquad \cos(-\theta) = \cos \theta$$

$$\csc(-\theta) = -\csc \theta \qquad \tan(-\theta) = -\tan \theta$$

$$\sec(-\theta) = \sec \theta \qquad \cot(-\theta) = -\cot \theta$$

Sum and difference formulas:

$$\sin(\theta \pm \varphi) = \sin \theta \cos \varphi \pm \cos \theta \sin \varphi$$

$$\cos(\theta \pm \varphi) = \cos \theta \cos \varphi \mp \sin \theta \sin \varphi$$

$$\tan(\theta \pm \varphi) = \frac{\tan \theta \pm \tan \varphi}{1 \mp \tan \theta \tan \varphi}$$

Half-angle formulas:

$$\sin \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{2}}$$

$$\cos \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$

$$\tan \frac{\theta}{2} = \frac{1 - \cos \theta}{\sin \theta} = \frac{\sin \theta}{1 + \cos \theta}$$

Double-angle formulas:

$$\sin(2\theta) = 2 \sin \theta \cos \theta$$

$$\cos(2\theta) = \cos^2 \theta - \sin^2 \theta = 2\cos^2 \theta - 1 = 1 - 2\sin^2 \theta$$

$$\tan(2\theta) = \frac{2 \tan \theta}{1 - \tan^2 \theta}$$

Power reducing formulas:

$$\sin^2 \theta = \frac{1 - \cos 2\theta}{2}$$

$$\cos^2 \theta = \frac{1 + \cos 2\theta}{2}$$

$$\tan^2 \theta = \frac{1 - \cos 2\theta}{1 + \cos 2\theta}$$

Sum-to-product formulas:

$$\sin \theta + \sin \varphi = 2 \sin\left(\frac{\theta + \varphi}{2}\right) \cos\left(\frac{\theta - \varphi}{2}\right)$$

$$\sin \theta - \sin \varphi = 2 \cos\left(\frac{\theta + \varphi}{2}\right) \sin\left(\frac{\theta - \varphi}{2}\right)$$

$$\cos \theta + \cos \varphi = 2 \cos\left(\frac{\theta + \varphi}{2}\right) \cos\left(\frac{\theta - \varphi}{2}\right)$$

$$\cos \theta - \cos \varphi = -2 \sin\left(\frac{\theta + \varphi}{2}\right) \sin\left(\frac{\theta - \varphi}{2}\right)$$

Product-to-sum formulas:

$$\sin \theta \sin \varphi = \frac{1}{2} [\cos(\theta - \varphi) - \cos(\theta + \varphi)]$$

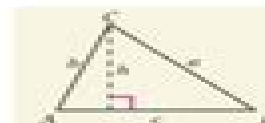
$$\cos \theta \cos \varphi = \frac{1}{2} [\cos(\theta - \varphi) + \cos(\theta + \varphi)]$$

$$\sin \theta \cos \varphi = \frac{1}{2} [\sin(\theta + \varphi) + \sin(\theta - \varphi)]$$

$$\cos \theta \sin \varphi = \frac{1}{2} [\sin(\theta + \varphi) - \sin(\theta - \varphi)]$$

Law of Sines:

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$



A is acute.



A is obtuse.

Law of Cosines:

$$a^2 = b^2 + c^2 - 2bc \cdot \cos(A)$$

$$b^2 = a^2 + c^2 - 2ac \cdot \cos(B)$$

$$c^2 = a^2 + b^2 - 2ab \cdot \cos(C)$$

Pre Calculus Quality Core Sheet Formulas

ML Yell



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