Cofunction I don't ties

$$26c(-0) = 26c(0)$$
 $c2c(-0) = -22c(0)$
 $co2(-0) = 26c(0)$ $c2c(-0) = -22c(0)$

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

Sum and Difference Identities for Cosine

$$\cos(\alpha + B) = \cos(\alpha)\cos(B) - \sin(\alpha)\sin(B)$$

$$cos(a-B) = cos(a) cos(B) + sin(a) sin(B)$$

Corunction Fdontities: For all applicable angles &

$$cos(\underline{\pi}-\Theta)=sin(\Theta)$$
 $sec(\underline{\pi}-\Theta)=csc(\Theta)$

Sum and Difference Identifies for Sine

$$Sin(a+B) = sin(a)cos(B) + cos(a)sin(B)$$

$$sin(a-B) = sin(a)cos(B) - cos(a) sin(B)$$

Sum and Difference Identities

$$tan(a+B) = tan(a) - tan(B)$$
 $tan(a-B) = tan(a) + tan(B)$
 $1 + tan(a) tan(B)$

$$csc(\theta) = \overline{T}$$

$$tan(\theta) = sin(\theta)$$

 $cos(\theta)$

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

Pythagorean

$$sin^{2}(\theta) + cos^{2}(\theta) = 1$$
 $cos^{2}(\theta) = 1 - sin^{2}(\theta)$
 $sin^{2}(\theta) = 1 - cos^{2}(\theta)$
 $1 + tan^{2}(\theta) = sec^{2}(\theta)$
 $sec^{2}(\theta) - tan^{2}(\theta) = 1$
 $sec^{2}(\theta) - 1 = tan^{2}(\theta)$
 $1 + cot^{2}(\theta) = csc^{2}(\theta)$

$$csc^{2}(\theta) - cot^{2}(\theta) = 1$$

 $csc^{2}(\theta) - 1 = cot^{2}(\theta)$

Pythagorean Conjugates

$$sec(\theta)$$
 - $tan(\theta)$ and $sec(\theta)$ + $tan(\theta)$.
 $(sec(\theta) - tan(\theta))(sec(\theta) + tan(\theta)) = sec^2(\theta) - tan^2(\theta) = 1$

$$csc(\theta)-1$$
 and $csc(\theta)+1: (csc(\theta)-1)(csc(\theta)+1)=cx^{2}(\theta)-1=cot^{2}(\theta)$

$$csc(\theta) - cot(\theta)$$
 and $csc(\theta) + cot(\theta)$;
 $(csc(\theta) - cot(\theta))(csc(\theta) + cot(\theta) = csc^2(\theta) - cot^2(\theta) = 1)$

Even-Odd Identities

Cosine is Even: cos(-x) = cosx

Sine is odd: sin(-x) =- sin x

tongent is odd: ton(-x) = . tanx

Double Finale Identities

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

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

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$$Sin(2e) = 2sin(6)\cos(6)$$

 $tan(2e) = 2 tan(2)$
 $tan^2(6)$

Power Reduction Formulas
$$\cos^2(\theta) = 1 + \cos(2\theta)$$

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

Half Angle Formulas

$$\cos(\Theta) = \pm \sqrt{1 \pm \cos(\Theta)}$$

Sum to Product Formulas

$$\cos(a) + \cos(B) = 2\cos(a+B)\cos(a-B)$$

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per to see the grant of the

$$cos(a) - cos(B) = -2sin(a+B) sin(a-B)$$

$$Sin(a) \pm Sin(B) = 2Sin(a \pm B) cos(a \pm B)$$