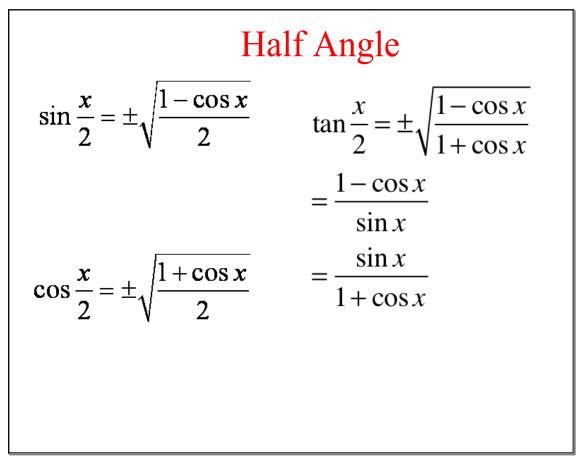


Power Reducing:  

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

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

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



Use the half angle identities to find the exact value without a calculator

sin15°

Prove: 
$$(\sin x + \cos x)^2 = 1 + \sin 2x$$

$$\frac{2\tan x}{1+\tan^2 x} = \sin 2x$$

Solve the equation:

 $\sin 2x + \cos x = 0$ 

Use the power reducing formula to reduce:

 $\cos^4 x$ 

Use the power reducing formula to reduce:	