10.1 Double Angles Notes

EQ: How do I use double angle properties to simplify expressions & solve equations?

How do I prove the double angle properties?	$\sin(2x) = \sin(x+x)$ $\cos(2x) = \cos(x+x)$
How do I simplify expressions with double angle properties?	Ex. $2\sin 34^o \cos 34^o$ Ex.Simplify $\cos 2A - \cos^2 A$
How do I find exact values using double angles?	Ex. $\sin x = \frac{3}{4}$ $\frac{\pi}{2} < x < \pi$ Find sin2x, cos2x, tan2x
How do I solve equations using double angles?	Ex. Find the a) general solution and b) the values for $0 \le x < 2\pi$ $4\sin x \cos x = 2$
Summary	