

More Trig. Formulas

- Addition Formulas:

- 1) $\sin(A+B) = \sin A \cos B + \cos A \sin B$
- 2) $\sin(A-B) = \sin A \cos B - \cos A \sin B$
- 3) $\cos(A+B) = \cos A \cos B - \sin A \sin B$
- 4) $\cos(A-B) = \cos A \cos B + \sin A \sin B$
- 5) $\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$
- 6) $\tan(A-B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$

- Double Angle Formulas:

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

Note: You DO NOT have to memorize these on the final. If needed, they will be provided.