## Trigonometric Ratios of Sum and Difference of

## Two Angles

- sin(A+B) = sinA.cosB + cosA.sinB
- sin(A-B) = sinA.cosB-cosA.sinB
- cos(A+B) = cosA.cosB sinA.sinB
- cos(A-B) = cosA.cosB+ sinA.sinB
- $tan(A+B) = \frac{tanA + tanB}{1 tanA \cdot tanB}$
- $tan(A-B) = \frac{tanA tanB}{1 + tanA.tanB}$
- $\cot(A+B) = \frac{\cot A \cdot \cot B 1}{\cot A + \cot B}$
- $\cot(A-B) = \frac{\cot A \cdot \cot B + 1}{\cot B \cot A}$