





 $\sin(\alpha \pm \beta) = \sin(\alpha)\cos(\beta) \pm \sin(\beta)\cos(\alpha)$ $\cos(\alpha \pm \beta) = \cos(\alpha)\cos(\beta) \mp \sin(\alpha)\sin(\beta)$ $\tan(\alpha \pm \beta) = \frac{\tan(\alpha) \pm \tan(\beta)}{1 \mp \tan(\alpha) \tan(\beta)}$

 $\tan\left(\frac{\pi}{12}\right)$

Find the exact value of the following $\cos(75^{\circ})$

 $\cos\beta = -\frac{12}{13}$ Second quad

 $\sin \alpha = \frac{4}{5}$ First quad

Evaluate $sin(\alpha + \beta)$

Using Sum Form Identities

$$\cos\!\left(\frac{\pi}{2}-x\right)=\sin x.$$

 $\frac{\cos(\alpha-\beta)}{\cos\alpha\cos\beta} = 1 + \tan\alpha\tan\beta.$



