

Sum or Difference of Angles

Possible Formulas

$$\begin{aligned}\sin(A - B) &= \sin A \cos B - \cos A \sin B \\ \sin(A + B) &= \sin A \cos B + \cos A \sin B\end{aligned}$$

$$\begin{aligned}\cos(A + B) &= \cos A \cos B - \sin A \sin B \\ \cos(A - B) &= \cos A \cos B + \sin A \sin B\end{aligned}$$

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$$\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

1. Find $\sin(75^\circ)$

2. Find $\cos(15^\circ)$.

3. $\tan(75^\circ)$.

4. $\sin(105^\circ)$

5. $\cos(105^\circ)$

6. $\tan(195^\circ)$

7. $\sin(210^\circ)$

8. $\cos(300^\circ)$

9. $\sin(\frac{\pi}{12})$.

10. $\cos(\frac{5\pi}{12})$.

11. $\tan(\frac{\pi}{12})$.

12. $\sin(\frac{7\pi}{12})$

13. $\cos(\frac{7\pi}{12})$

14. $\tan(\frac{11\pi}{12})$