

Express each as a single trigonometric function.

1) $\sin \theta \sin 8\theta - \cos \theta \cos 8\theta$

2) $\sin 12^\circ \cos 17^\circ + \cos 12^\circ \sin 17^\circ$

3) $\frac{\tan 4\theta - \tan \theta}{1 + \tan 4\theta \tan \theta}$

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$$\sin \frac{\pi}{12} + \sin \frac{15\pi}{27} \sin \frac{\pi}{12}$$

5) $\sin 280^\circ \cos 30^\circ$

$$\frac{\tan \frac{2\pi}{5}}{\tan \frac{2\pi}{5}}$$