

Simplify

Express each as a single trigonometric function.

1) $\sin 6\theta \cos 2\theta + \cos 6\theta \sin 2\theta$

2) $\frac{\tan 86^\circ + \tan 18^\circ}{1 - \tan 86^\circ \tan 18^\circ}$

3) $\cos 31^\circ \cos 38^\circ$

$\frac{9\pi}{20} - \cos \frac{37\pi}{60} \sin \frac{9\pi}{20}$

5) $\frac{\tan \frac{11\pi}{30} - \tan \frac{2\pi}{15}}{1 + \tan \frac{11\pi}{30} \tan \frac{2\pi}{15}}$

$\cos \theta + \sin 3\theta \sin \theta$

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