

**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)  $\frac{\tan \frac{11\pi}{30} - \tan \frac{2\pi}{3}}{1 + \tan \frac{11\pi}{30} \tan \frac{2\pi}{3}}$

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

# PREVIEW

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

**sin 80°****04°****PREVIEW**

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**cos 69°** **$\frac{\pi}{6}$** [www.mathworksheets4kids.com](http://www.mathworksheets4kids.com) **$\tan \frac{\pi}{5}$** **cos 20**