

Evaluate

Use sum or difference identities to determine the exact value of each trigonometric expression.

1) $\cos \frac{31\pi}{60} \cos \frac{11\pi}{15} - \sin \frac{31\pi}{60} \sin \frac{11\pi}{15}$

2) $\sin \frac{4\pi}{9} \cos \frac{13\pi}{18} + \cos \frac{4\pi}{9} \sin \frac{13\pi}{18}$

3) $\frac{\tan \frac{9\pi}{20} - \tan \frac{\pi}{5}}{1 + \tan \frac{9\pi}{20} \tan \frac{\pi}{5}}$

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$\sin 61^\circ \sin 31^\circ$

5) $\sin 418^\circ \cos 58^\circ$

$\frac{\sin 81^\circ}{\sin 81^\circ}$