

10-1 & 10-2 Practice

Find the exact value of each.

1) $\sin 195^\circ$

2) $\sin \frac{11\pi}{12}$

3) $\cos 255^\circ$

4) $\cos \frac{13\pi}{12}$

5) $\tan 105^\circ$

6) $\tan \frac{7\pi}{12}$

7) $\sin 138^\circ \cos 48^\circ - \cos 138^\circ \sin 48^\circ$

8) $\sin \frac{13\pi}{18} \cos \frac{2\pi}{9} - \cos \frac{13\pi}{18} \sin \frac{2\pi}{9}$

$$9) \cos 101^\circ \cos 41^\circ + \sin 101^\circ \sin 41^\circ$$

$$10) \cos \frac{8\pi}{9} \cos \frac{7\pi}{18} + \sin \frac{8\pi}{9} \sin \frac{7\pi}{18}$$

$$11) \frac{\tan 233^\circ - \tan 113^\circ}{1 + \tan 233^\circ \tan 113^\circ}$$

$$12) \frac{\tan \frac{26\pi}{9} - \tan \frac{19\pi}{18}}{1 + \tan \frac{26\pi}{9} \tan \frac{19\pi}{18}}$$

Simplify.

$$13) \sin 6u \cos u + \cos 6u \sin u$$

$$14) \sin -6\theta \cos 2\theta - \cos -6\theta \sin 2\theta$$

$$15) \cos 6x \cos 6x - \sin 6x \sin 6x$$

$$16) \cos 6u \cos -5u + \sin 6u \sin -5u$$

$$17) \frac{\tan 6u - \tan u}{1 + \tan 6u \tan u}$$

$$18) \frac{\tan u - \tan -5u}{1 + \tan u \tan -5u}$$