HA2T 8.1 Day 3 Worksheet Name: Key

Find exact values.

1. $\cos 240°$ $\frac{-1}{2}$

2. $\tan 270°$ undefined

3. $\sec 150°$ $\frac{-2\sqrt{3}}{3}$

4. $\csc 330°$ -2

5. $\cos \frac{3\pi}{4}$ $\frac{-\sqrt{2}}{2}$

6. $\tan \frac{3\pi}{4}$ -1

7. $\sec 2\pi$ 1

8. $\csc \frac{2\pi}{3}$ $\frac{2\sqrt{3}}{3}$

9. $\sin \frac{11\pi}{6}$ $\frac{-1}{2}$

10. $\tan 300° \sec 300°$ $-2\sqrt{3}$

$-\sqrt{3} \cdot 2$

11. $20 \sin 60° \cos 240°$ $-5\sqrt{3}$

$20 \cdot \frac{\sqrt{3}}{2} \cdot \frac{-1}{2}$

12. $\tan 30° \cot 30° + \tan 60° \cot 60°$ 2

$\frac{\sqrt{3}}{3} \cdot \sqrt{3} + \sqrt{3} \cdot \frac{\sqrt{3}}{3}$

$\frac{3}{3} + \frac{3}{3}$

13. $\sin^2 150° + \cos^2 30°$ 1

$\left(\frac{1}{2}\right)^2 + \left(\frac{\sqrt{3}}{2}\right)^2$

$\frac{1}{4} + \frac{3}{4}$

14. $\cos^2 45° - \sin^2 135°$ 0

$\left(\frac{\sqrt{2}}{2}\right)^2 - \left(\frac{\sqrt{2}}{2}\right)^2$

15. $\frac{\sin 120°}{\cos 120°}$ $-\sqrt{3}$

$\frac{\frac{\sqrt{3}}{2}}{\frac{-1}{2}} =$

16. $\sin \frac{\pi}{2} + 6 \cos \frac{\pi}{3}$ 4

$1 + 6\left(\frac{1}{2}\right)$

17. $\sin \frac{2\pi}{3} \cos \frac{\pi}{6} + \cos \frac{2\pi}{3} \sin \frac{\pi}{6}$ $\frac{1}{2}$

$\frac{\sqrt{3}}{2} \cdot \frac{\sqrt{3}}{2} + \frac{-1}{2} \cdot \frac{+1}{2}$

$\frac{3}{4} - \frac{1}{4}$