

4.3B HW: 43-58, 67-70 all

$$43) \sec 120^\circ \begin{array}{c} s \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = -\sec 60^\circ = -2 \quad \leftarrow \frac{1}{-\cos 60^\circ}$$

$$44) \sin 315^\circ \begin{array}{c} \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = -\sin 45^\circ = -\frac{\sqrt{2}}{2}$$

$$45) \cos \frac{11\pi}{3} \begin{array}{c} \text{---} \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = \cos \frac{\pi}{3} = \frac{1}{2}$$

$$46) \tan -\frac{5\pi}{4} \begin{array}{c} s \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = -\tan \frac{\pi}{4} = -1$$

$$47) \csc 390^\circ \begin{array}{c} \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = \csc 30^\circ = 2 \quad \leftarrow \frac{1}{\sin 30^\circ}$$

$$48) \cot 510^\circ \begin{array}{c} s \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = -\cot 30^\circ = -\sqrt{3} \quad \leftarrow \frac{1}{\tan 30^\circ}$$

$$49) \csc 540^\circ \begin{array}{c} \text{---} \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = \csc 0^\circ = \text{und.} \quad \leftarrow \frac{1}{\sin 0^\circ}$$

$$50) \sec \frac{3\pi}{2} \begin{array}{c} \text{---} \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = \sec \frac{3\pi}{2} = \text{und.} \quad \leftarrow \frac{1}{\cos \frac{3\pi}{2}}$$

$$51) \cot -\frac{5\pi}{6} \begin{array}{c} \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = \cot \frac{\pi}{6} = \sqrt{3} \quad \leftarrow \frac{1}{\tan \frac{\pi}{6}}$$

$$52) \csc \frac{17\pi}{6} \begin{array}{c} s^* \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = \csc \frac{\pi}{6} = 2 \quad \leftarrow \frac{1}{\sin \frac{\pi}{6}}$$

$$53) \tan^+ \frac{5\pi}{3} \begin{array}{c} \text{---} \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = \tan \frac{\pi}{3} = \sqrt{3}$$

$$54) \sec \frac{7\pi}{6} \begin{array}{c} \text{---} \\ \diagdown \\ \text{---} \\ \diagup \\ c \end{array} = -\sec \frac{\pi}{6} = \frac{2}{\sqrt{3}} = \frac{2\sqrt{3}}{3} \quad \leftarrow \frac{1}{\cos \frac{\pi}{6}}$$

$$55) \sin^{-\frac{5\pi}{3}} \begin{array}{c} \text{A} \\ \nearrow \\ \ominus \end{array} \frac{\pi}{3} = \sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$$

$$56) \cos \frac{7\pi}{4} \begin{array}{c} \ominus \\ \searrow \\ \text{C} \end{array} \frac{\pi}{4} = \cos \frac{\pi}{4} = \frac{\sqrt{2}}{2}$$

$$57) \tan \frac{14\pi}{3} \begin{array}{c} \text{S} \\ \ominus \\ \nearrow \end{array} \frac{\pi}{3} = -\tan \frac{\pi}{3} = -\sqrt{3}$$

$$58) \cos^{-\frac{19\pi}{6}} \begin{array}{c} \text{S} \\ \ominus \\ \searrow \end{array} \frac{\pi}{6} = -\cos \frac{\pi}{6} = -\frac{1}{2}$$

$$67) \cos(-\theta) = \frac{8}{11} \quad \cos \theta = \frac{8}{11} \quad \sec \theta = \frac{11}{8}$$

even

$$68) \sin(-\theta) = \frac{5}{9} \quad \sin \theta = -\frac{5}{9} \quad \csc \theta = -\frac{9}{5}$$

odd

$$69) \sec \theta = \frac{13}{12} \quad \cos \theta = \frac{12}{13} \quad \cos(-\theta) = \frac{12}{13}$$

even

$$70) \csc \theta = \frac{19}{17} \quad \sin \theta = \frac{17}{19} \quad \sin(-\theta) = -\frac{17}{19}$$