DATE: _____

Row By Row
A

Angle	Corresponding Angle θ, where $0 \le \theta < 2\pi$ (show work, if needed)
$\frac{7\pi}{2}$	$\frac{7\pi}{2} - 2\pi = \frac{7\pi}{2} - \frac{4\pi}{2} = \frac{3\pi}{2}$ $\boxed{\frac{3\pi}{2}}$
$-\frac{\pi}{3}$	$-\frac{\pi}{3} + 2\pi = -\frac{\pi}{3} + \frac{6\pi}{3} = \frac{5\pi}{3}$ $\boxed{\frac{5\pi}{3}}$
$\frac{8\pi}{3}$	$\frac{8\pi}{3} - 2\pi = \frac{8\pi}{3} - \frac{6\pi}{3} = \frac{2\pi}{3}$ $\boxed{\frac{2\pi}{3}}$
7π	$7\pi - 2\pi = 5\pi$ $5\pi - 2\pi = 3\pi$ $3\pi - 2\pi = \pi$ $\boxed{\pi}$
$\frac{17\pi}{4}$	$\frac{17\pi}{4} - 2\pi = \frac{17\pi}{4} - \frac{8\pi}{4} = \frac{9\pi}{4}$ $\frac{9\pi}{4} - 2\pi = \frac{9\pi}{4} - \frac{8\pi}{4} = \frac{\pi}{4}$ $\boxed{\frac{\pi}{4}}$
$\frac{17\pi}{6}$	$\frac{17\pi}{6} - 2\pi = \frac{17\pi}{6} - \frac{12\pi}{6} = \frac{5\pi}{6}$ $\boxed{\frac{5\pi}{6}}$
$\frac{41\pi}{2}$	$\frac{41\pi}{2} - 2\pi = \frac{41\pi}{2} - \frac{4\pi}{2} = \frac{37\pi}{2}$ $\frac{37\pi}{2} - 2\pi = \frac{37\pi}{2} - \frac{4\pi}{2} = \frac{33\pi}{2}$ $\frac{33\pi}{2} - \frac{4\pi}{2} = \frac{29\pi}{2}$ ... $\frac{25\pi}{2} - \frac{4\pi}{2} = \frac{21\pi}{2}$ ... $\frac{17\pi}{2} - \frac{4\pi}{2} = \frac{13\pi}{2}$ ... $\frac{13\pi}{2} - \frac{4\pi}{2} = \frac{9\pi}{2}$ $\frac{9\pi}{2} - \frac{4\pi}{2} = \frac{5\pi}{2}$ $\frac{5\pi}{2} - \frac{4\pi}{2} = \frac{\pi}{2}$ $\boxed{\frac{\pi}{2}}$
-8π	$-8\pi + 2\pi = -6\pi$ $-6\pi + 2\pi = -4\pi$ $-4\pi + 2\pi = -2\pi$ $-2\pi + 2\pi = 0$ $\boxed{0}$

Expression	Expression written with Unit Circle ∠ (if necessary)	Convert to sine/cosine (if necessary)	Value of Expression
$\sin\frac{3\pi}{2}$	×	×	-1
$\cos\frac{5\pi}{3}$	×	×	$\frac{1}{2}$
$\tan\pi$	×	$\frac{\sin\pi}{\cos\pi} = \frac{0}{-1}$	0
$\csc\frac{7\pi}{4}$	×	$\frac{1}{\sin\frac{7\pi}{4}} = \frac{1}{-\sqrt{2}/2}$	$-\frac{2}{\sqrt{2}}$ or $-\sqrt{2}$
$\sec\frac{\pi}{3}$	×	$\frac{1}{\cos\frac{\pi}{3}} = \frac{1}{\frac{1}{2}}$	2
$\cot 7\pi$	$7\pi - 2\pi = 5\pi$ $5\pi - 2\pi = 3\pi$ $3\pi - 2\pi = \pi$ ☺ $\cot\pi$	$\frac{\cos\pi}{\sin\pi} = \frac{-1}{0}$	DNE or undefined
$\tan\frac{19\pi}{6}$	$\frac{19\pi}{6} - 2\pi = \frac{19\pi}{6} - \frac{12\pi}{6}$ ☺ $\tan\frac{7\pi}{6}$	$\frac{\sin\frac{7\pi}{6}}{\cos\frac{7\pi}{6}} = \frac{-1/2}{-\sqrt{3}/2}$	$\frac{1}{\sqrt{3}}$ or $\frac{\sqrt{3}}{3}$
$\cos\frac{-2\pi}{3}$	$-\frac{2\pi}{3} + 2\pi = -\frac{2\pi}{3} + \frac{6\pi}{3}$ $\cos\frac{4\pi}{3}$	×	$-\frac{1}{2}$

DATE: _____

Row By Row
B

Angle	Corresponding Angle θ, where $0 \le \theta < 2\pi$ (show work, if needed)
$-\frac{\pi}{2}$	$-\frac{\pi}{2} + 2\pi = -\frac{\pi}{2} + \frac{4\pi}{2} = \frac{3\pi}{2}$ $\boxed{\frac{3\pi}{2}}$
$\frac{11\pi}{3}$	$\frac{11\pi}{3} - 2\pi = \frac{11\pi}{3} - \frac{6\pi}{3} = \frac{5\pi}{3}$ $\boxed{\frac{5\pi}{3}}$
$-\frac{4\pi}{3}$	$-\frac{4\pi}{3} + 2\pi = -\frac{4\pi}{3} + \frac{6\pi}{3} = \frac{2\pi}{3}$ $\boxed{\frac{2\pi}{3}}$
11π	$11\pi - 2\pi = 9\pi$ $9\pi - 2\pi = 7\pi$ $7\pi - 2\pi = 5\pi$ $5\pi - 2\pi = 3\pi$ $3\pi - 2\pi = \pi$ $\boxed{\pi}$
$\frac{9\pi}{4}$	$\frac{9\pi}{4} - 2\pi = \frac{9\pi}{4} - \frac{8\pi}{4} = \frac{\pi}{4}$ $\boxed{\frac{\pi}{4}}$
$\frac{29\pi}{6}$	$\frac{29\pi}{6} - 2\pi = \frac{29\pi}{6} - \frac{12\pi}{6} = \frac{17\pi}{6}$ $\frac{17\pi}{6} - 2\pi = \frac{17\pi}{6} - \frac{12\pi}{6} = \frac{5\pi}{6}$ $\boxed{\frac{5\pi}{6}}$
$\frac{25\pi}{2}$	$\frac{25\pi}{2} - 2\pi = \frac{25\pi}{2} - \frac{4\pi}{2} = \frac{21\pi}{2}$ $\frac{21\pi}{2} - 2\pi = \frac{21\pi}{2} - \frac{4\pi}{2} = \frac{17\pi}{2}$ $\frac{17\pi}{2} - \frac{4\pi}{2} = \frac{13\pi}{2}$ $\frac{13\pi}{2} - \frac{4\pi}{2} = \frac{9\pi}{2}$ $\frac{9\pi}{2} - \frac{4\pi}{2} = \frac{5\pi}{2}$ $\frac{5\pi}{2} - \frac{4\pi}{2} = \frac{\pi}{2}$ $\boxed{\frac{\pi}{2}}$
34π	$34\pi - 2\pi = 32\pi$ $32\pi - 2\pi = 30\pi$ $30\pi - 2\pi = 28\pi$ $\vdots$ $2\pi - 2\pi = 0$ $\boxed{0}$

Expression	Expression written with Unit Circle ∠ (if necessary)	Convert to sine/cosine (if necessary)	Value of Expression
$\cos \pi$	×	×	-1
$\sin \frac{5\pi}{6}$	×	×	$\frac{1}{2}$
$\cot \frac{\pi}{2}$	×	$\frac{\cos \frac{\pi}{2}}{\sin \frac{\pi}{2}} = \frac{0}{-1}$	0
$\sec \frac{11\pi}{4}$	$\frac{11\pi}{4} - 2\pi = \frac{11\pi}{4} - \frac{8\pi}{4}$ ☺ $\sec \frac{3\pi}{4}$	$\frac{1}{\cos \frac{3\pi}{4}} = \frac{1}{-\sqrt{2}/2}$	$-\frac{2}{\sqrt{2}}$ or $-\sqrt{2}$
$\csc \frac{\pi}{6}$	×	$\frac{1}{\sin \frac{\pi}{6}} = \frac{1}{1/2}$	2
$\tan\left(-\frac{\pi}{2}\right)$	$-\frac{\pi}{2} + 2\pi = -\frac{\pi}{2} + \frac{4\pi}{2} = \frac{3\pi}{2}$ ☺ $\tan \frac{3\pi}{2}$	$\frac{\sin \frac{3\pi}{2}}{\cos \frac{3\pi}{2}} = \frac{-1}{0}$	DNE or undefined
$\cot \frac{7\pi}{3}$	$\frac{7\pi}{3} - 2\pi = \frac{7\pi}{3} - \frac{6\pi}{3}$ ☺ $\cot \frac{\pi}{3}$	$\frac{\cos \frac{\pi}{3}}{\sin \frac{\pi}{3}} = \frac{1/2}{\sqrt{3}/2}$	$\frac{1}{\sqrt{3}}$ or $\frac{\sqrt{3}}{3}$
$\sin \frac{23\pi}{6}$	$\frac{23\pi}{6} - 2\pi = \frac{23\pi}{6} - \frac{12\pi}{6} = \frac{11\pi}{6}$ $\sin \frac{11\pi}{6}$	×	$-\frac{1}{2}$