Name __Key__

Score __(5 min.)__

Trig. Function Quiz #1A (Quadrantal Angles sin, cos, tan & negative angles)

A. $\cos 180° =$ __(-1)__ $\tan 90° =$ __(u)__ $\sin -90° =$ __(-1)__

B. $\tan 360° =$ __(0)__ $\cos 270° =$ __(0)__ $\tan -180 =$ __(0)__

C. $\sin 0° =$ __(0)__ $\cos 270° =$ __(0)__ $\sin 360° =$ __(0)__

D. $\sin 90° =$ __(1)__ $\cos -90° =$ __(0)__ $\tan 270° =$ __(Und)__

E. $\tan 180° =$ __(0)__ $\cos 90° =$ __(0)__ $\sin 90° =$ __(1)__

F. $\sin 270° =$ __(-1)__ $\cos 0° =$ __(1)__ $\sin 180° =$ __(0)__

G. $\tan -270° =$ __(Und)__ $\cos 360° =$ __(1)__ $\sin 180° =$ __(0)__

H. $\tan 270° =$ __(Und)__ $\sin 270° =$ __(-1)__ $\cos 180° =$ __(-1)__

SCORE _____   NAME ___ Key ___

#2A

Trig. Function Quiz #1 (Quadrantal Angles: All six functions) (27 prob)

A. $\sec 0 = $ ① $\csc 180 = $ und $\sin 90 = $ ①

B. $\sec 180 = $ -1 $\tan 270 = $ und $\cot 360 = $ und

C. $\tan 90 = $ und $\csc 0 = $ und $\cos 360 = $ 1

D. $\sin 180 = $ 0 $\sec 270 = $ und $\cot 0 = $ und

E. $\sec 360 = $ 1 $\sin 0 = $ 0 $\csc 180 = $ und

F. $\tan 0 = $ 0 $\cot 180 = $ und $\cos 270 = $ 0

G. $\csc 360 = $ und $\sec 90 = $ und $\tan 180 = $ 0

H. $\cos 90 = $ 0 $\csc 270 = $ -1 $\sin 270 = $ -1

I. $\cot 90 = $ 0 $\tan 360 = $ 0 $\sec 0 = $ 1

Can Miss 2

SCORE _____

NAME __**Key**__   5 min

TRIGONOMETRY FUNCTIONS QUIZ (1st Quadrant, 6 functions)

A. $\sin 45 = \dfrac{\sqrt{2}}{2}$ $\cos 90 = 0$ $\tan 0 = 0$ $\tan 90 = und$

B. $\cos 45 = \dfrac{\sqrt{2}}{2}$ $\sec 60 = 2$ $\cos 60 = \dfrac{1}{2}$ $\cot 45 = 1$

C. $\tan 30 = \dfrac{\sqrt{3}}{3}$ $\sin 60 = \dfrac{\sqrt{3}}{2}$ $\csc 0 = und$ $\sec 90 = und$

D. $\cos 30 = \dfrac{\sqrt{3}}{2}$ $\csc 90 = 1$ $\sec 0 = 1$ $\csc 30 = 2$

E. $\csc 45 = \sqrt{2}$ $\sin 30 = \dfrac{1}{2}$ $\cot 30 = \sqrt{3}$

F. $\tan 45 = 1$ $\cos 0 = 1$ $\cos 60 = \dfrac{1}{2}$ $\tan 45 = 1$

G. $\sin 0 = 0$ $\cot 90 = 0$ $\cos 90 = 0$ $\csc 60 = \dfrac{2\sqrt{3}}{3}$

H. $\cos 30 = \dfrac{\sqrt{3}}{2}$ $\tan 60 = \sqrt{3}$ $\tan 0 = 0$ $\sin 90 = 1$

I. $\sec 30 = \dfrac{2\sqrt{3}}{3}$ $\cos 45 = \dfrac{\sqrt{2}}{2}$ $\sec 45 = \sqrt{2}$

4A

Trigonometry Functions Quiz   (Convert between radian/degrees)

A. $90 = \boxed{\dfrac{\pi}{2}}$ $\dfrac{3\pi}{4} = \boxed{135°}$ $240 = \boxed{\dfrac{4\pi}{3}}$ $135 = \boxed{\dfrac{3\pi}{4}}$

B. $\dfrac{11\pi}{6} = \boxed{330°}$ $180 = \boxed{\pi}$ $\dfrac{\pi}{3} = \boxed{60}$ $330 = \boxed{\dfrac{11\pi}{6}}$

C. $210 = \boxed{\dfrac{7\pi}{6}}$ $\dfrac{5\pi}{6} = \boxed{150}$ $60 = \boxed{\dfrac{\pi}{3}}$ $\pi = \boxed{180°}$

D. $0 = \boxed{0°}$ $270 = \boxed{\dfrac{3\pi}{2}}$ $\dfrac{5\pi}{3} = \boxed{300°}$ $\dfrac{5\pi}{4} = \boxed{225°}$

E. $\dfrac{4\pi}{3} = \boxed{240°}$ $45 = \boxed{\dfrac{\pi}{4}}$ $\dfrac{3\pi}{2} = \boxed{270°}$ $150 = \boxed{\dfrac{5\pi}{6}}$

F. $120 = \boxed{\dfrac{2\pi}{3}}$ $\dfrac{\pi}{6} = \boxed{30}$ $300 = \boxed{\dfrac{5\pi}{3}}$ $\dfrac{7\pi}{4} = \boxed{315}$

G. $\dfrac{\pi}{4} = \boxed{45}$ $30 = \boxed{\dfrac{\pi}{6}}$ $\dfrac{7\pi}{6} = \boxed{210}$ $360 = \boxed{2\pi}$

H. $225 = \boxed{\dfrac{5\pi}{4}}$ $\dfrac{\pi}{2} = \boxed{90}$ $315 = \boxed{\dfrac{7\pi}{4}}$ $2\pi = \boxed{360°}$

I. $\dfrac{\pi}{3} = \boxed{60}$ $120 = \boxed{\dfrac{2\pi}{3}}$ $\dfrac{3\pi}{2} = \boxed{270}$ $180 = \boxed{\pi}$

5A   Can miss 2   5 min

SCORE: _____   NAME Key   DATE: Key

5A
Trigonometry Functions Quiz #5 (Radians/1st Quad/6 Functions)
36 problems

A. $\sin\frac{\pi}{2} = \boxed{1}$ $\cos\frac{\pi}{3} = \boxed{\frac{1}{2}}$ $\tan 0 = \boxed{0}$ $\tan\frac{\pi}{4} = \boxed{1}$

B. $\cos 0 = \boxed{1}$ $\sec\frac{\pi}{6} = \boxed{\frac{2\sqrt{3}}{3}}$ $\cos\frac{\pi}{6} = \boxed{\frac{\sqrt{3}}{2}}$ $\cot\frac{\pi}{2} = \boxed{0}$

C. $\tan\frac{\pi}{6} = \boxed{\frac{\sqrt{3}}{3}}$ $\sin 0 = \boxed{0}$ $\csc\frac{\pi}{2} = \boxed{1}$ $\sec\frac{\pi}{2} = \boxed{und}$

D. $\cos\frac{\pi}{2} = \boxed{0}$ $\csc\frac{\pi}{6} = \boxed{2}$ $\sec\frac{\pi}{3} = \boxed{2}$ $\csc 0 = \boxed{und}$

E. $\csc\frac{\pi}{3} = \boxed{\frac{2\sqrt{3}}{3}}$ $\sin\frac{\pi}{4} = \boxed{\frac{\sqrt{2}}{2}}$ $\cot\frac{\pi}{6} = \boxed{\sqrt{3}}$ $\cos\frac{\pi}{4} = \boxed{\frac{\sqrt{2}}{2}}$

F. $\tan\frac{\pi}{3} = \boxed{\sqrt{3}}$ $\cos\frac{\pi}{3} = \boxed{\frac{1}{2}}$ $\cos\frac{\pi}{3} = \boxed{\frac{1}{2}}$ $\tan\frac{\pi}{2} = \boxed{und}$

G. $\sin\frac{\pi}{6} = \boxed{\frac{1}{2}}$ $\cot\frac{\pi}{3} = \boxed{\frac{\sqrt{3}}{3}}$ $\cos 0 = \boxed{1}$ $\csc\frac{\pi}{4} = \boxed{\sqrt{2}}$

H. $\cos\frac{\pi}{6} = \boxed{\frac{\sqrt{3}}{2}}$ $\tan 0 = \boxed{0}$ $\tan\frac{\pi}{4} = \boxed{1}$ $\sin\frac{\pi}{3} = \boxed{\frac{\sqrt{3}}{2}}$

Com miss.
2

NAME ___Key___

TRIGONOMETRY FUNCTIONS QUIZ

$\sin 30° = \frac{1}{2}$　　$\cos 90° = 0$　　$\tan 0° = 0$　　$\tan 45° = 1$

$\cos 135° = -\frac{\sqrt{2}}{2}$　　$\sin 225° = -\frac{\sqrt{2}}{2}$　　$\cos -30° = \frac{\sqrt{3}}{2}$　　$\sin 270° = -1$

$\tan 315° = -1$　　$\sin 150° = \frac{1}{2}$　　$\cos 180° = -1$　　$\sin 60° = \frac{\sqrt{3}}{2}$

$\cos 30° = \frac{\sqrt{3}}{2}$　　$\tan 240° = \sqrt{3}$　　$\cos 330° = \frac{\sqrt{3}}{2}$　　$\cos 315° = \frac{\sqrt{2}}{2}$

$\sin 180° = 0$　　$\sin -60° = \frac{\sqrt{3}}{2}$　　$\tan 30° = \frac{\sqrt{3}}{3}$　　$\cos 0° = 1$

$\tan 45° = 1$　　$\cos 180° = -1$　　$\cos 60° = \frac{1}{2}$　　$\tan 30° = \frac{\sqrt{3}}{3}$

$\sin 0° = 0$　　$\sin 210° = -\frac{1}{2}$　　$\cos 120° = -\frac{1}{2}$　　$\tan 315° = -1$

$\cos 30° = \frac{\sqrt{3}}{2}$　　$\tan 180° = 0$　　$\tan 240° = \sqrt{3}$　　$\sin 90° = 1$

$\sin 300° = -\frac{\sqrt{3}}{2}$　　$\cos 45° = \frac{\sqrt{2}}{2}$　　$\cos 270° = 0$　　$\tan 60° = \sqrt{3}$

$\tan 60° = \sqrt{3}$　　$\sin 315° = -\frac{\sqrt{2}}{2}$　　$\sin 180° = 0$　　$\tan 330° = -\frac{\sqrt{3}}{3}$

Quiz 7A

can miss +3

9min

NAME ___Key___

#7A

TRIGONOMETRY FUNCTIONS QUIZ

$\sin \pi = 0$ $\cos \frac{2\pi}{3} = -1/2$ $\tan \frac{\pi}{2} = $ und $\tan 0 = 0$

$\cos \frac{\pi}{3} = \frac{1}{2}$ $\sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$ $\cos \frac{5\pi}{3} = 1/2$ $\sin \frac{\pi}{6} = \frac{1}{2}$

$\tan 2\pi = 0$ $\sin \frac{\pi}{2} = 1$ $\cos \frac{7\pi}{4} = \frac{\sqrt{2}}{2}$ $\sin \frac{5\pi}{6} = \frac{1}{2}$

$\cos \pi = -1$ $\tan \frac{5\pi}{4} = 1$ $\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$ $\cos \frac{\pi}{2} = 0$

$\sin \frac{11\pi}{6} = -\frac{1}{2}$ $\sin \frac{3\pi}{2} = -1$ $\tan \frac{\pi}{3} = \sqrt{3}$ $\cos \frac{\pi}{4} = \frac{\sqrt{2}}{2}$

$\tan \pi = 0$ $\cos \frac{7\pi}{6} = \frac{-\sqrt{3}}{2}$ $\cos \frac{3\pi}{4} = \frac{-\sqrt{2}}{2}$ $\tan \frac{11\pi}{6} = \frac{-\sqrt{3}}{3}$

$\sin \frac{5\pi}{3} = \frac{-\sqrt{3}}{2}$ $\sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$ $\cos \frac{5\pi}{6} = \frac{-\sqrt{3}}{2}$ $\tan \frac{3\pi}{2} = $ und

$\cos \frac{5\pi}{4} = \frac{-\sqrt{2}}{2}$ $\tan \frac{2\pi}{3} = -\sqrt{3}$ $\tan \frac{\pi}{6} = \frac{\sqrt{3}}{3}$ $\sin \frac{3\pi}{4} = \frac{\sqrt{2}}{2}$

$\sin 2\pi = 0$ $\cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2}$ $\cos \frac{7\pi}{6} = \frac{-\sqrt{3}}{2}$ $\tan \frac{5\pi}{6} = \frac{-\sqrt{3}}{3}$

$\tan \frac{7\pi}{6} = \frac{\sqrt{3}}{3}$ $\sin \frac{7\pi}{4} = \frac{-\sqrt{2}}{2}$ $\sin 0 = 0$ $\tan \frac{4\pi}{3} = \sqrt{3}$

$\cos \frac{5\pi}{4} = \frac{-\sqrt{2}}{2}$ $\sin \frac{7\pi}{6} = -\frac{1}{2}$ $\tan \frac{7\pi}{4} = -1$ $\cos \frac{3\pi}{2} = 0$

(8 min. can miss 4)

SCORE: __8A__   NAME __[Key]__   DATE: _____

TRIGONOMETRY FUNCTIONS QUIZ   #9A
(Radians/4 Quad/6 Functions)   48 problems

A. $\sin 2\pi =$ (0) $\csc 0 =$ (Und) $\tan \frac{\pi}{2} =$ (Und) $\cot \pi =$ (Und)

B. $\cos \frac{5\pi}{3} =$ $\left(\frac{1}{2}\right)$ $\sec \frac{3\pi}{2} =$ (Und) $\cot \frac{\pi}{3} =$ $\left(\frac{\sqrt{3}}{3}\right)$ $\sin \frac{7\pi}{4} =$ $\left(\frac{-\sqrt{2}}{2}\right)$

C. $\tan \frac{3\pi}{4} =$ (−1) $\sec \pi =$ (−1) $\cos \frac{\pi}{6} =$ $\left(\frac{\sqrt{3}}{2}\right)$ $\csc \frac{\pi}{4} =$ $\left(\sqrt{2}\right)$

D. $\cos \pi =$ (−1) $\tan \frac{\pi}{3} =$ $\left(\sqrt{3}\right)$ $\csc \frac{11\pi}{6} =$ (−2) $\cot \frac{7\pi}{4} =$ (−1)

E. $\sin \pi =$ (0) $\sec \frac{5\pi}{4} =$ $\left(-\sqrt{2}\right)$ $\tan \frac{5\pi}{3} =$ $\left(-\sqrt{3}\right)$ $\cos \frac{3\pi}{4} =$ $\left(\frac{-\sqrt{2}}{2}\right)$

F. $\csc \frac{5\pi}{4} =$ $\left(-\sqrt{2}\right)$ $\sec \frac{\pi}{2} =$ (Und) $\cot \frac{3\pi}{2} =$ (0) $\sin \frac{\pi}{3} =$ $\left(\frac{\sqrt{3}}{2}\right)$

G. $\sin \frac{5\pi}{3} =$ $\left(\frac{-\sqrt{3}}{2}\right)$ $\sec 2\pi =$ (1) $\cos \frac{5\pi}{4} =$ $\left(\frac{-\sqrt{2}}{2}\right)$ $\tan \pi =$ (0)

H. $\csc \frac{\pi}{6} =$ (2) $\cot \frac{\pi}{2} =$ (0) $\tan \frac{11\pi}{6} =$ $\left(\frac{-\sqrt{3}}{3}\right)$ $\sin \frac{7\pi}{6} =$ $\left(\frac{-1}{2}\right)$

I. $\sec \frac{\pi}{3} =$ (2) $\cos \frac{11\pi}{6} =$ $\left(\frac{\sqrt{3}}{2}\right)$ $\cot \frac{5\pi}{3} =$ $\left(\frac{-\sqrt{3}}{3}\right)$ $\csc \frac{3\pi}{2} =$ (−1)

J. $\tan 2\pi =$ (0) $\csc \pi =$ (Und) $\sin \frac{3\pi}{2} =$ (−1) $\cot \frac{7\pi}{6} =$ $\left(\sqrt{3}\right)$

K. $\sec \frac{5\pi}{4} =$ $\left(-\sqrt{2}\right)$ $\cos \frac{\pi}{2} =$ (0) $\sec \frac{3\pi}{4} =$ $\left(-\sqrt{2}\right)$ $\cos \frac{\pi}{6} =$ $\left(\frac{\sqrt{3}}{2}\right)$

L. $\cot \pi =$ (Und) $\tan \frac{5\pi}{4} =$ (1) $\csc \frac{5\pi}{6} =$ (2) $\sin \frac{\pi}{6} =$ $\left(\frac{1}{2}\right)$

Scoring: at least 15 for ½ point
at least 26 for full point   (Not Timed)

Trigonometry Identities & Formulas QUIZ #9A+B   Name ____(Key)____

Reciprocal Identities

$\sin\theta = \dfrac{1}{\csc\theta}$ $\cos\theta = \dfrac{1}{\sec\theta}$ $\tan\theta = \dfrac{1}{\cot\theta}$ $\cot\theta = \dfrac{1}{\tan\theta}$ $\csc\theta = \dfrac{1}{\sin\theta}$ $\sec\theta = \dfrac{1}{\cos\theta}$

Quotient Identities

$\tan\theta = \dfrac{\sin\theta}{\cos\theta}$ $\cot\theta = \dfrac{\cos\theta}{\sin\theta}$

Pythagorean Identities

$\sin^2\theta + \cos^2\theta = 1$ $\tan^2\theta + 1 = \sec^2\theta$ $\cot^2\theta + 1 = \csc^2\theta$

Negative Angle Identities

$\sin(-\theta) = -\sin\theta$ $\cos(-\theta) = \cos\theta$ $\tan(-\theta) = -\tan\theta$

$\csc(-\theta) = -\csc\theta$ $\sec(-\theta) = \sec\theta$ $\cot(-\theta) = -\cot\theta$

Difference Formulas

$\cos(A-B) = \cos A\cos B + \sin A\sin B$

$\sin(A-B) = \sin A\cos B - \cos A\sin B$

$\tan(A-B) = \dfrac{\tan A - \tan B}{1 + \tan A\tan B}$

Sum Formulas

$\cos(A+B) = \cos A\cos B - \sin A\sin B$

$\sin(A+B) = \sin A\cos B + \cos A\sin B$

$\tan(A+B) = \dfrac{\tan A + \tan B}{1 - \tan A\tan B}$

Double Angle Formulas

$\cos 2A = \cos^2 A - \sin^2 A$ or $\cos 2A = 1 - 2\sin^2 A$ or $\cos 2A = 2\cos^2 A - 1$

$\sin 2A = 2\sin A\cos A$ $\tan 2A = \dfrac{2\tan A}{1 - \tan^2 A}$

Power Reducing Formulas

$\sin^2 u = \dfrac{1 - \cos 2u}{2}$ $\cos^2 u = \dfrac{1 + \cos 2u}{2}$ $\tan^2 u = \dfrac{1 - \cos 2u}{1 + \cos 2u}$

SCORE _____ (can miss 4)   NAME ___ Key ___

Trig. Function Quiz #10A   24 problems - 5 min.
(Inverse Functions /4 Quadrants/ 3 Functions)

**Remember to only use defined quadrants!   Answers may be expressed in radians or degrees.

A. $\tan^{-1}\sqrt{3}$ = $\left(\dfrac{\pi}{3}\right)$ $\left(60°\right)$ $\sin^{-1}\dfrac{1}{2}$ $\left(\dfrac{\pi}{6}\right)$ $\left(30°\right)$ arccos 0 $\left(\dfrac{\pi}{2}\right)$ $\left(90°\right)$

B. $\arctan -\dfrac{1}{\sqrt{3}}$ $\left(-\dfrac{\pi}{6}\right)$ $\left(-30°\right)$ arcsin 1 $\left(\dfrac{\pi}{2}\right)$ $\left(90°\right)$ $\sin^{-1}-\dfrac{1}{\sqrt{2}}$ $\left(-\dfrac{\pi}{4}\right)$ $\left(-45°\right)$

C. $\arccos -\dfrac{\sqrt{3}}{2}$ $\left(\dfrac{5\pi}{6}\right)$ $\left(150°\right)$ $\cos^{-1}\dfrac{1}{2}$ $\left(\dfrac{\pi}{3}\right)$ $\left(60°\right)$ arccos 1 $\left(0\,rad\right)$ $\left(0°\right)$

D. arcsin 0 $\left(0\,rad\right)$ $\left(0°\right)$ arctan 1 $\left(\dfrac{\pi}{4}\right)$ $\left(45°\right)$ $\sin^{-1}\dfrac{1}{\sqrt{2}}$ $\left(\dfrac{\pi}{4}\right)$ $\left(45°\right)$

E. $\cos^{-1}\dfrac{1}{\sqrt{2}}$ $\left(\dfrac{\pi}{4}\right)$ $\left(45°\right)$ $\sin^{-1}-1$ $\left(-\dfrac{\pi}{2}\right)$ $\left(-90°\right)$ arccos $\dfrac{\sqrt{3}}{2}$ $\left(\dfrac{\pi}{6}\right)$ $\left(30°\right)$

F. $\tan^{-1}0$ $\left(0\,rad\right)$ $\left(0°\right)$ $\cos^{-1}-\dfrac{1}{\sqrt{2}}$ $\left(\dfrac{3\pi}{4}\right)$ $\left(135°\right)$ $\sin^{-1}-\dfrac{\sqrt{3}}{2}$ $\left(-\dfrac{\pi}{3}\right)$ $\left(-60°\right)$

G. $\tan^{-1}-1$ $\left(-\dfrac{\pi}{4}\right)$ $\left(-45°\right)$ $\arctan\dfrac{1}{\sqrt{3}}$ $\left(\dfrac{\pi}{6}\right)$ $\left(30°\right)$ $\sin^{-1}\dfrac{\sqrt{3}}{2}$ $\left(\dfrac{\pi}{3}\right)$ $\left(60°\right)$

H. $\arctan -\sqrt{3}$ $\left(-\dfrac{\pi}{3}\right)$ $\left(-60°\right)$ $\sin^{-1}-\dfrac{1}{2}$ $\left(-\dfrac{\pi}{6}\right)$ $\left(-30°\right)$ $\tan^{-1}-1$ $\left(-\dfrac{\pi}{4}\right)$ $\left(-45°\right)$

Extra Credit

can miss $4   6 min

40 problems - 6 minutes   Name __Key__

Trigonometry Function Quiz   #11 (extra credit)

(all functions, all quadrants, negative angles, angles over 360 degrees)

A. csc -30 = -2 cot -2π = $-\sqrt{3}$ sin 540 = 0 tan -90 = Und

B. sec -225 = $-\sqrt{2}$ cos 495 = $-\frac{\sqrt{2}}{2}$ tan -270 = Und sin 675 = $-\frac{\sqrt{2}}{2}$

C. cot -60 = $\frac{-\sqrt{3}}{3}$ csc -180 = Und sec 420 = 2 cos -135 = $\frac{-\sqrt{2}}{2}$

D. csc -210 = 2 sin 405 = $\frac{\sqrt{2}}{2}$ tan 480 = $-\sqrt{3}$ sec -120 = -2

E. cos 405 = $\frac{\sqrt{2}}{2}$ cot -150 = $\sqrt{3}$ tan 390 = $\frac{\sqrt{3}}{3}$ csc 450 = 1

F. sec -330 = $\frac{2\sqrt{3}}{3}$ sin 630 = -1 cos -300 = $\frac{1}{2}$ tan -240 = $-\sqrt{3}$

G. csc 720 = Und cot -315 = 1 tan -45 = -1 sec 660 = 2

H. sin 585 = $\frac{-\sqrt{2}}{2}$ cot -30 = $-\sqrt{3}$ cos 600 = $\frac{-1}{2}$ sec 570 = $\frac{-2\sqrt{3}}{3}$

I. tan 690 = $\frac{-\sqrt{3}}{3}$ csc 510 = 2 sin -180 = 0 cot -240 = $\frac{-\sqrt{3}}{3}$

J. cos -360 = 1 csc -90 = -1 tan 405 = 1 sec -240 = -2

TRIG FUNCTIONS QUIZ (Radian & Degree/4 Quad/3 Func) 44 problems

A. $\sin 210 = \boxed{-\dfrac{1}{2}}$ $\cos \dfrac{5\pi}{4} = \boxed{-\dfrac{\sqrt{2}}{2}}$ $\tan 300 = \boxed{-\sqrt{3}}$ $\tan \dfrac{5\pi}{3} = \boxed{-\sqrt{3}}$

B. $\cos \dfrac{3\pi}{2} = \boxed{0}$ $\sin 225 = \boxed{-\dfrac{\sqrt{2}}{2}}$ $\cos \dfrac{7\pi}{6} = \boxed{-\dfrac{\sqrt{3}}{2}}$ $\sin 270 = \boxed{-1}$

C. $\tan 135 = \boxed{-1}$ $\sin \dfrac{4\pi}{3} = \boxed{-\dfrac{\sqrt{3}}{2}}$ $\tan \dfrac{\pi}{6} = \boxed{\dfrac{\sqrt{3}}{3}}$ $\cos 60 = \boxed{\dfrac{1}{2}}$

D. $\cos 30 = \boxed{\dfrac{\sqrt{3}}{2}}$ $\tan \dfrac{5\pi}{6} = \boxed{-\dfrac{\sqrt{3}}{3}}$ $\tan 330 = \boxed{-\dfrac{\sqrt{3}}{3}}$ $\sin \dfrac{11\pi}{6} = \boxed{-\dfrac{1}{2}}$

E. $= \boxed{-\dfrac{\sqrt{3}}{2}}$ $\cos \dfrac{2\pi}{3} = \boxed{-\dfrac{1}{2}}$ $\sin 150 = \boxed{\dfrac{1}{2}}$ $\cos 0 = \boxed{1}$

F. $\tan 210 = \boxed{\dfrac{\sqrt{3}}{3}}$ $\sin \dfrac{5\pi}{4} = \boxed{-\dfrac{\sqrt{2}}{2}}$ $\cos 60 = \boxed{\dfrac{1}{2}}$ $\tan \dfrac{\pi}{3} = \boxed{\sqrt{3}}$

G. $\sin 330 = \boxed{-\dfrac{1}{2}}$ $\sin \dfrac{\pi}{2} = \boxed{1}$ $\cos 120 = \boxed{-\dfrac{1}{2}}$ $\tan 315 = \boxed{-1}$

H. $\tan \pi = \boxed{0}$ $\tan 150 = \boxed{-\dfrac{\sqrt{3}}{3}}$ $\tan \dfrac{5\pi}{4} = \boxed{1}$ $\sin 90 = \boxed{1}$

I. $\sin \dfrac{\pi}{4} = \boxed{\dfrac{\sqrt{2}}{2}}$ $\sin 120 = \boxed{\dfrac{\sqrt{3}}{2}}$ $\cos \dfrac{\pi}{3} = \boxed{\dfrac{1}{2}}$ $\cos \dfrac{4\pi}{3} = \boxed{-\dfrac{1}{2}}$

J. $\cos 240 = \boxed{-\dfrac{1}{2}}$ $\sin 315 = \boxed{-\dfrac{\sqrt{2}}{2}}$ $\sin \dfrac{3\pi}{4} = \boxed{\dfrac{\sqrt{2}}{2}}$ $\tan 330 = \boxed{-\dfrac{\sqrt{3}}{3}}$

K. $\tan \dfrac{11\pi}{6} = \boxed{-\dfrac{\sqrt{3}}{3}}$ $\cos 150 = \boxed{-\dfrac{\sqrt{3}}{2}}$ $\sin \dfrac{7\pi}{4} = \boxed{-\dfrac{\sqrt{2}}{2}}$ $\cos 135 = \boxed{-\dfrac{\sqrt{2}}{2}}$