

1B

can miss 1

(5 min)

Name _____

Key

Score _____

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

A. $\sin 0^\circ = \underline{\textcircled{0}}$

$\cos 90^\circ = \underline{\textcircled{0}}$

$\sin 360^\circ = \underline{\textcircled{0}}$

B. $\tan -270^\circ = \underline{\text{Und}}$

$\cos 360^\circ = \underline{\textcircled{1}}$

$\sin -180^\circ = \underline{\textcircled{0}}$

C. $\tan 180^\circ = \underline{\textcircled{0}}$

$\cos 90^\circ = \underline{\textcircled{0}}$

$\sin 90^\circ = \underline{\textcircled{1}}$

D. $\tan 360^\circ = \underline{\textcircled{0}}$

$\cos 270^\circ = \underline{\textcircled{0}}$

$\tan -180^\circ = \underline{\textcircled{0}}$

E. $\tan 270^\circ = \underline{\text{Und}}$

$\sin 270^\circ = \underline{\textcircled{-1}}$

$\cos 180^\circ = \underline{\textcircled{-1}}$

F. $\cos 180^\circ = \underline{\textcircled{-1}}$

$\tan 90^\circ = \underline{\text{Und}}$

$\sin -90^\circ = \underline{\textcircled{-1}}$

G. $\sin 90^\circ = \underline{\textcircled{1}}$

$\cos 270^\circ = \underline{\textcircled{0}}$

$\tan 270^\circ = \underline{\text{Und}}$

H. $\sin 270^\circ = \underline{\textcircled{-1}}$

$\cos 0^\circ = \underline{\textcircled{1}}$

$\sin 180^\circ = \underline{\textcircled{0}}$

2B

Can miss 2

(5 min)

SCORE _____

NAME Key

Trig. Function Quiz #2B (Quadrantal Angles: All Six Functions) (27 prob.)

A. $\csc 90 = \underline{1}$ $\cot 0 = \underline{\text{und}}$ $\cos 270 = \underline{0}$

B. $\sec 0 = \underline{1}$ $\tan 180 = \underline{0}$ $\sin 360 = \underline{0}$

C. $\csc 180 = \underline{\text{und}}$ $\tan 0 = \underline{0}$ $\cos 90 = \underline{0}$

D. $\sec 180 = \underline{-1}$ $\sin 90 = \underline{1}$ $\csc 0 = \underline{\text{und}}$

E. $\tan 270 = \underline{\text{und}}$ $\sin 270 = \underline{-1}$ $\cot 90 = \underline{0}$

F. $\csc 270 = \underline{-1}$ $\cos 0 = \underline{1}$ $\sin 180 = \underline{0}$

G. $\cot 180 = \underline{\text{und}}$ $\csc 360 = \underline{\text{und}}$ $\cos 90 = \underline{0}$

H. $\tan 90 = \underline{\text{und}}$ $\sec 270 = \underline{\text{und}}$ $\cot 360 = \underline{\text{und}}$

I. $\sec 90 = \underline{\text{und}}$ $\cos 180 = \underline{-1}$ $\tan 0 = \underline{0}$

3B

can miss 2

(5 min)

SCORE _____

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Key

(34 problems) Trig. Function Quiz # 3B (First Quadrant - all six functions)

A. $\tan 45 = \underline{\underline{1}}$ $\cos 30 = \underline{\underline{\frac{\sqrt{3}}{2}}}$ $\csc 60 = \underline{\underline{\frac{2\sqrt{3}}{3}}}$ $\sin 90 = \underline{\underline{1}}$

B. $\sec 30 = \underline{\underline{\frac{2\sqrt{3}}{3}}}$ $\tan 90 = \underline{\underline{\text{und}}}$ $\sin 0 = \underline{\underline{0}}$ $\cot 45 = \underline{\underline{1}}$

C. $\csc 30 = \underline{\underline{2}}$ $\tan 0 = \underline{\underline{0}}$ $\cos 90 = \underline{\underline{0}}$ $\sec 45 = \underline{\underline{\sqrt{2}}}$

D. $\sec 0 = \underline{\underline{1}}$ $\sin 45 = \underline{\underline{\frac{\sqrt{2}}{2}}}$ $\csc 0 = \underline{\underline{\text{und}}}$ $\cos 45 = \underline{\underline{\frac{\sqrt{2}}{2}}}$

E. $\tan 30 = \underline{\underline{\frac{\sqrt{3}}{3}}}$ $\sin 30 = \underline{\underline{\frac{1}{2}}}$ $\cot 0 = \underline{\underline{\text{und}}}$ $\sec 60 = \underline{\underline{2}}$

F. $\csc 45 = \underline{\underline{\sqrt{2}}}$ $\cos 0 = \underline{\underline{1}}$ $\sin 60 = \underline{\underline{\frac{\sqrt{3}}{2}}}$ $\sec 0 = \underline{\underline{1}}$

G. $\cot 30 = \underline{\underline{\sqrt{3}}}$ $\csc 90 = \underline{\underline{1}}$ $\cos 60 = \underline{\underline{\frac{1}{2}}}$ $\cot 90 = \underline{\underline{0}}$

H. $\tan 60 = \underline{\underline{\sqrt{3}}}$ $\sec 90 = \underline{\underline{\text{und}}}$ $\cot 60 = \underline{\underline{\frac{\sqrt{3}}{3}}}$ $\sec 90 = \underline{\underline{\text{und}}}$

I. $\sec 90 = \underline{\underline{\text{und}}}$ $\cot 0 = \underline{\underline{\text{und}}}$

4B

Can miss 2

(5 min)

SCORE _____

NAME Key

DATE _____

Trigonometry Functions Quiz # 4B (Convert between radian/degrees)
(36 problems)

A. $45 = \underline{\frac{\pi}{4}}$ $\frac{3\pi}{4} = \underline{135^\circ}$ $\pi = \underline{180^\circ}$ $90 = \underline{\frac{\pi}{2}}$

B. $330 = \underline{\frac{11\pi}{6}}$ $180 = \underline{\pi}$ $\frac{5\pi}{3} = \underline{300^\circ}$ $\frac{\pi}{2} = \underline{90^\circ}$

C. $\frac{11\pi}{6} = \underline{330^\circ}$ $210 = \underline{\frac{7\pi}{6}}$ $\frac{7\pi}{6} = \underline{210^\circ}$ $360 = \underline{2\pi}$

D. $300 = \underline{\frac{5\pi}{3}}$ $0 = \underline{0^\circ}$ $150 = \underline{\frac{5\pi}{6}}$ $60 = \underline{\frac{\pi}{3}}$

E. $\frac{\pi}{3} = \underline{60^\circ}$ $30 = \underline{\frac{\pi}{6}}$ $\frac{5\pi}{6} = \underline{150^\circ}$ $120 = \underline{\frac{2\pi}{3}}$

F. $240 = \underline{\frac{4\pi}{3}}$ $\frac{7\pi}{4} = \underline{315^\circ}$ $\frac{\pi}{6} = \underline{30^\circ}$ $270 = \underline{\frac{3\pi}{2}}$

G. $0 = \underline{0}$ $\frac{2\pi}{3} = \underline{120^\circ}$ $225 = \underline{\frac{5\pi}{4}}$ $\frac{5\pi}{4} = \underline{225^\circ}$

H. $\frac{4\pi}{3} = \underline{240^\circ}$ $315 = \underline{\frac{7\pi}{4}}$ $\frac{\pi}{4} = \underline{45^\circ}$ $\frac{3\pi}{2} = \underline{270^\circ}$

I. $90 = \underline{\frac{\pi}{2}}$ $\frac{\pi}{6} = \underline{30^\circ}$ $240 = \underline{\frac{4\pi}{3}}$ $\frac{3\pi}{4} = \underline{135^\circ}$

5B

Can miss 2

(5 min)

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32

(34 problems) Trig. Function Quiz # 5B (Radians/1st Quad./6 Functions)

A. $\tan \frac{\pi}{4} = \underline{1}$ $\cos \frac{\pi}{2} = \underline{0}$ $\csc \frac{\pi}{6} = \underline{2}$ $\sin 0 = \underline{0}$

B. $\sec \frac{\pi}{3} = \underline{2}$ $\tan 0 = \underline{0}$ $\sin \frac{\pi}{2} = \underline{1}$ $\cot \frac{\pi}{4} = \underline{1}$

C. $\csc 0 = \underline{\text{und}}$ $\tan \frac{\pi}{6} = \underline{\frac{\sqrt{3}}{3}}$ $\cos \frac{\pi}{4} = \underline{\frac{\sqrt{2}}{2}}$ $\sec \frac{\pi}{2} = \underline{\text{und}}$

D. $\sec \frac{\pi}{4} = \underline{\sqrt{2}}$ $\sin \frac{\pi}{6} = \underline{\frac{1}{2}}$ $\csc \frac{\pi}{4} = \underline{\sqrt{2}}$ $\cos \frac{\pi}{6} = \underline{\frac{\sqrt{3}}{2}}$

E. $\tan \frac{\pi}{2} = \underline{\text{und}}$ $\sin \frac{\pi}{4} = \underline{\frac{\sqrt{2}}{2}}$ $\cot 0 = \underline{\text{und}}$ $\sec 0 = \underline{1}$

F. $\csc \frac{\pi}{3} = \underline{\frac{2\sqrt{3}}{3}}$ $\cos \frac{\pi}{3} = \underline{\frac{1}{2}}$ $\sin \frac{\pi}{3} = \underline{\frac{\sqrt{3}}{2}}$ $\sec \frac{\pi}{3} = \underline{2}$

G. $\cot \frac{\pi}{2} = \underline{0}$ $\csc \frac{\pi}{2} = \underline{1}$ $\cos 0 = \underline{1}$ $\cot \frac{\pi}{3} = \underline{\frac{\sqrt{3}}{3}}$

H. $\tan \frac{\pi}{3} = \underline{\sqrt{3}}$ $\sec \frac{\pi}{6} = \underline{\frac{2\sqrt{3}}{3}}$ $\cot \frac{\pi}{6} = \underline{\sqrt{3}}$ $\sec \frac{\pi}{2} = \underline{\text{und}}$

Can miss 2

10 minutes - but that
includes writing on
quiz

SCORE _____

6B

NAME _____

Key

Trig. Function Quiz # 6B (All quadrants/3 Functions) 40 problems in 6 min.

$$\cos 45 = \frac{\sqrt{2}}{2} \quad \sin 120 = \frac{\sqrt{3}}{2} \quad \tan 330 = \frac{-\sqrt{3}}{\sqrt{3}} \quad \cos 210 = \frac{-\sqrt{3}}{2}$$

$$\sin 30 = \frac{1}{2} \quad \tan 60 = \sqrt{3} \quad \sin 330 = -\frac{1}{2} \quad \cos 315 = \frac{\sqrt{2}}{2}$$

$$\tan 240 = \frac{\sqrt{3}}{1} \quad \tan 225 = -1 \quad \cos 180 = -1 \quad \sin 135 = \frac{\sqrt{2}}{2}$$

$$\cos 90 = 0 \quad \tan 135 = -1 \quad \sin 225 = -\frac{\sqrt{2}}{2} \quad \cos 300 = \frac{1}{2}$$

$$\tan 270 = \text{und} \quad \sin 210 = -\frac{1}{2} \quad \tan 180 = 0 \quad \cos 330 = \frac{\sqrt{3}}{2}$$

$$\sin 45 = \frac{\sqrt{2}}{2} \quad \cos 30 = \frac{\sqrt{3}}{2} \quad \sin 90 = 1 \quad \tan 120 = -\sqrt{3}$$

$$\cos 150 = \frac{-\sqrt{3}}{2} \quad \sin 180 = 0 \quad \cos 360 = 1 \quad \sin 300 = -\frac{\sqrt{3}}{2}$$

$$\tan 150 = \frac{-\sqrt{3}}{3} \quad \sin 300 = -\frac{\sqrt{3}}{2} \quad \tan 30 = \frac{\sqrt{3}}{3} \quad \tan 45 = 1$$

$$\cos 135 = -\frac{\sqrt{2}}{2} \quad \tan 90 = \text{und} \quad \sin 360 = 0 \quad \tan 315 = -1$$

$$\sin 150 = \frac{1}{2} \quad \cos 240 = -\frac{1}{2} \quad \cos 225 = -\frac{\sqrt{2}}{2} \quad \tan 0 = 0$$

7B

SCORE _____

NAME _____ Key

44
problemsTrig. Function Quiz #7B
(Radians /4 Quadrants/ 3 Functions)

- A. $\tan \frac{\pi}{3}$ $(\sqrt{3})$ $\sin \frac{3\pi}{4}$ $(\frac{\sqrt{2}}{2})$ $\cos \frac{5\pi}{3}$ $(\frac{1}{2})$ $\tan \frac{\pi}{2}$ (Und)
- B. $\cos \frac{\pi}{4}$ $(\frac{\sqrt{2}}{2})$ $\sin 2\pi$ (0) $\tan \frac{5\pi}{4}$ (1) $\cos \frac{3\pi}{4}$ $(-\frac{\sqrt{2}}{2})$
- C. $\tan \frac{4\pi}{3}$ $(\sqrt{3})$ $\cos \frac{7\pi}{6}$ $(-\frac{\sqrt{3}}{2})$ $\sin \frac{\pi}{6}$ $(\frac{1}{2})$ $\sin \frac{5\pi}{6}$ $(\frac{1}{2})$
- D. $\cos \frac{3\pi}{2}$ (0) $\tan \frac{2\pi}{3}$ $(-\sqrt{3})$ $\cos \frac{7\pi}{4}$ $(\frac{\sqrt{2}}{2})$ $\tan 0$ (0)
- E. $\sin \frac{3\pi}{2}$ (-1) $\sin \frac{5\pi}{3}$ $(-\frac{\sqrt{3}}{2})$ $\tan \frac{5\pi}{6}$ $(-\frac{\sqrt{3}}{3})$ $\cos 2\pi$ (1)
- F. $\cos \frac{5\pi}{6}$ $(-\frac{\sqrt{3}}{2})$ $\sin \frac{7\pi}{6}$ $(-\frac{1}{2})$ $\tan \frac{\pi}{4}$ (1) $\tan \frac{3\pi}{2}$ (Und)
- G. $\tan \pi$ (0) $\cos \frac{\pi}{3}$ $(\frac{1}{2})$ $\sin 2\pi$ (0) $\cos \frac{\pi}{2}$ (0)
- H. $\sin \frac{2\pi}{3}$ $(\frac{\sqrt{3}}{2})$ $\cos \frac{5\pi}{3}$ $(\frac{1}{2})$ $\tan \frac{11\pi}{6}$ $(-\frac{\sqrt{3}}{3})$ $\sin \frac{\pi}{4}$ $(\frac{\sqrt{2}}{2})$
- I. $\cos \frac{7\pi}{4}$ $(\frac{\sqrt{2}}{2})$ $\tan \frac{\pi}{6}$ $(\frac{\sqrt{3}}{3})$ $\sin \frac{\pi}{3}$ $(\frac{\sqrt{3}}{2})$ $\tan \frac{7\pi}{6}$ $(\frac{\sqrt{3}}{3})$
- J. $\tan \frac{5\pi}{3}$ $(-\sqrt{3})$ $\sin \frac{\pi}{2}$ (1) $\cos \pi$ (-1) $\cos \frac{5\pi}{4}$ $(-\frac{\sqrt{2}}{2})$
- K. $\sin \frac{3\pi}{4}$ $(\frac{\sqrt{2}}{2})$ $\cos \frac{11\pi}{6}$ $(\frac{\sqrt{3}}{2})$ $\tan \frac{7\pi}{4}$ (-1) $\sin \frac{7\pi}{4}$ $(-\frac{\sqrt{2}}{2})$

(8 minutes - can miss 4) 

9B

SCORE _____

NAME Key _____

Trig. Function Quiz SB
(Radians /4 Quadrants/ 6 Functions)

- A. $\csc \pi$ Und sec $\frac{\pi}{4}$ $\sqrt{2}$ cos $\frac{11\pi}{6}$ $\frac{\sqrt{3}}{2}$ tan $\frac{5\pi}{4}$ 1
- B. cot $\frac{\pi}{2}$ 0 sin $\frac{5\pi}{4}$ $-\frac{\sqrt{2}}{2}$ sec $\frac{2\pi}{3}$ -2 csc $\frac{7\pi}{4}$ $-\sqrt{2}$
- C. tan $\frac{\pi}{6}$ $\frac{\sqrt{3}}{3}$ cos $\frac{5\pi}{3}$ $\frac{1}{2}$ sin $\frac{7\pi}{6}$ $-\frac{1}{2}$ cos $\frac{\pi}{3}$ $\frac{1}{2}$
- D. sec 2π 1 cot $\frac{5\pi}{6}$ $-\sqrt{3}$ csc $\frac{3\pi}{2}$ -1 tan $\frac{7\pi}{6}$ $\frac{\sqrt{3}}{3}$
- E. sin $\frac{7\pi}{4}$ $-\frac{\sqrt{2}}{2}$ cos $\frac{\pi}{4}$ $\frac{\sqrt{2}}{2}$ tan $\frac{3\pi}{4}$ -1 cot $\frac{5\pi}{4}$ 1
- F. sec $\frac{11\pi}{6}$ $\frac{2\sqrt{3}}{3}$ sin $\frac{5\pi}{3}$ $-\frac{\sqrt{3}}{2}$ csc $\frac{5\pi}{4}$ $-\sqrt{2}$ tan π 0
- G. tan $\frac{7\pi}{4}$ -1 cos $\frac{3\pi}{2}$ 0 csc 2π Und cot $\frac{3\pi}{2}$ 0
- H. sin $\frac{11\pi}{6}$ $-\frac{1}{2}$ cos $\frac{7\pi}{4}$ $\frac{\sqrt{2}}{2}$ sec $\frac{7\pi}{6}$ $-\frac{2\sqrt{3}}{3}$ sec $\frac{\pi}{3}$ 2
- I. csc $\frac{5\pi}{6}$ 2 cos π -1 sin $\frac{5\pi}{3}$ $-\frac{\sqrt{3}}{2}$ tan 0 0
- J. cot $\frac{7\pi}{4}$ -1 cot $\frac{\pi}{6}$ $\sqrt{3}$ sec $\frac{5\pi}{4}$ $-\sqrt{2}$ cos $\frac{3\pi}{4}$ $-\frac{\sqrt{2}}{2}$
- K. sin 2π 0 cot $\frac{3\pi}{4}$ -1 tan $\frac{\pi}{3}$ $\sqrt{3}$ csc π Und
- L. cos $\frac{\pi}{6}$ $\frac{\sqrt{3}}{2}$ sin $\frac{\pi}{4}$ $\frac{\sqrt{2}}{2}$ csc $\frac{2\pi}{3}$ $\frac{2\sqrt{3}}{3}$ tan $\frac{3\pi}{2}$ Und

#9A+B

Scoring: at least 15 for $\frac{1}{2}$ point
at least 26 for full point

(Not Timed)

Trigonometry Identities & Formulas **QUIZ #9A+B** Name _____ **Reciprocal Identities**

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

Quotient Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}, \quad \cot \theta = \frac{\cos \theta}{\sin \theta}$$

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

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

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

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

Sum Formulas

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

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

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

Double Angle Formulas

$$\cos 2A = \cos^2 A - \sin^2 A \quad \text{or} \quad \cos 2A = 1 - 2\sin^2 A \quad \text{or} \quad \cos 2A = 2\cos^2 A - 1$$

$$\sin 2A = 2\sin A \cos A$$

$$\tan 2A = \frac{2\tan A}{1 - \tan^2 A}$$

Power Reducing Formulas

$$\sin^2 u = \frac{1 - \cos 2u}{2}$$

$$\cos^2 u = \frac{1 + \cos 2u}{2}$$

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

10B

5 min

Can miss 4

SCORE _____

(can miss 4)

NAME Key

Trig. Function Quiz #10B 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. $\cos^{-1} \frac{1}{\sqrt{2}}$ $\sin^{-1} -1$ $\arctan -\frac{1}{\sqrt{3}}$
- B. $\arccos -\frac{\sqrt{3}}{2}$ $\sin^{-1} \frac{1}{2}$ $\arccos 1$
- C. $\tan^{-1} 0$ $\cos^{-1} -\frac{1}{\sqrt{2}}$ $\arcsin 0$
- D. $\sin^{-1} -\frac{\sqrt{3}}{2}$ $\arctan 1$ $\sin^{-1} \frac{1}{\sqrt{2}}$
- E. $\tan^{-1} \sqrt{3}$ $\sin^{-1} \frac{\sqrt{3}}{2}$ $\arccos 0$
- F. $\sin^{-1} -\frac{1}{\sqrt{2}}$ $\arctan \frac{1}{\sqrt{3}}$ $\cos^{-1} \frac{1}{2}$
- G. $\arccos -\frac{\sqrt{3}}{2}$ $\arcsin 1$ $\tan^{-1} -1$
- H. $\arctan -\sqrt{3}$ $\sin^{-1} -\frac{1}{2}$ $\tan^{-1} -1$

13B

Extra Credit

(5 min. - can miss 3)



SCORE _____

NAME _____ Key

Trig. Function Quiz 12B
(Radians & Degrees / 4 Quadrants/ 3 Functions) 44 problems

- A. $\cos 300$ $\left(\frac{1}{2}\right)$ $\tan 45$ (1) $\cos \frac{5\pi}{4}$ $\left(\frac{-\sqrt{2}}{2}\right)$ $\sin 60$ $\left(\frac{\sqrt{3}}{2}\right)$
- B. $\tan \frac{\pi}{3}$ $(\sqrt{3})$ $\sin \frac{3\pi}{4}$ $\left(\frac{\sqrt{2}}{2}\right)$ $\tan 210$ $\left(\frac{\sqrt{3}}{3}\right)$ $\cos \pi$ (-1)
- C. $\tan \frac{3\pi}{2}$ (Und) $\cos 30$ $\left(\frac{\sqrt{3}}{2}\right)$ $\tan \frac{2\pi}{3}$ $(-\sqrt{3})$ $\cos \frac{\pi}{6}$ $\left(\frac{\sqrt{3}}{2}\right)$
- D. $\sin 120$ $\left(\frac{\sqrt{3}}{2}\right)$ $\tan 240$ $(\sqrt{3})$ $\cos 90$ (0) $\tan \frac{5\pi}{3}$ $(-\sqrt{3})$
- E. $\sin \frac{11\pi}{6}$ $\left(-\frac{1}{2}\right)$ $\sin 225$ $\left(\frac{-\sqrt{2}}{2}\right)$ $\tan 270$ (Und) $\cos \frac{\pi}{4}$ $\left(\frac{\sqrt{2}}{2}\right)$
- F. $\cos 150$ $\left(-\frac{\sqrt{3}}{2}\right)$ $\sin 2\pi$ (0) $\tan \frac{3\pi}{4}$ (-1) $\sin 0$ (0)
- G. $\tan 315$ (-1) $\cos \frac{\pi}{4}$ $\left(\frac{\sqrt{2}}{2}\right)$ $\sin \frac{7\pi}{4}$ $\left(-\frac{\sqrt{2}}{2}\right)$ $\cos 135$ $\left(-\frac{\sqrt{2}}{2}\right)$
- H. $\sin 300$ $\left(-\frac{\sqrt{3}}{2}\right)$ $\cos \frac{5\pi}{6}$ $\left(-\frac{\sqrt{3}}{2}\right)$ $\tan \frac{\pi}{6}$ $\left(\frac{\sqrt{3}}{3}\right)$ $\sin \frac{3\pi}{4}$ $\left(\frac{\sqrt{2}}{2}\right)$
- I. $\cos 0$ (1) $\tan 180$ (0) $\sin 45$ $\left(\frac{\sqrt{2}}{2}\right)$ $\tan \frac{4\pi}{3}$ $(\sqrt{3})$
- J. $\tan \frac{7\pi}{4}$ (-1) $\sin \frac{\pi}{2}$ (1) $\cos \frac{5\pi}{4}$ $\left(-\frac{\sqrt{2}}{2}\right)$ $\cos 330$ $\left(\frac{\sqrt{3}}{2}\right)$
- K. $\sin 240$ $\left(-\frac{\sqrt{3}}{2}\right)$ $\cos \frac{2\pi}{3}$ $\left(-\frac{1}{2}\right)$ $\tan 30$ $\left(\frac{\sqrt{3}}{3}\right)$ $\sin \frac{7\pi}{6}$ $\left(-\frac{1}{2}\right)$