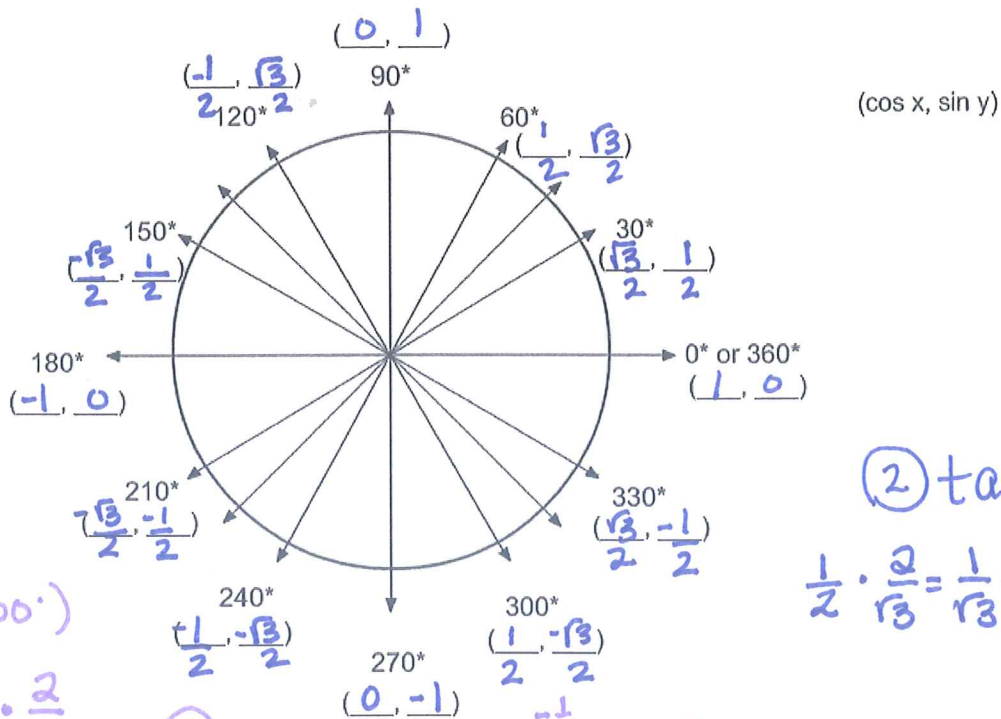


Name: Key Hour: _____ Unit Circle Wksht 30-60-90

Complete ALL OF THE COORDIANTES of the unit Circle with all 30, 60, 90 measurements.



(cos x, sin y)

⑦ $\tan(300^\circ)$
 $\frac{-\frac{\sqrt{3}}{2}}{\frac{1}{2}} = -\frac{\sqrt{3}}{2} \cdot \frac{2}{1}$
 $\boxed{= -\sqrt{3}}$

⑧ $\tan 210^\circ = \frac{-\frac{1}{2}}{-\frac{\sqrt{3}}{2}}$
 $-\frac{1}{2} \cdot \frac{2}{\sqrt{3}} = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

② $\tan 30^\circ = \frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}}$
 $\frac{1}{2} \cdot \frac{2}{\sqrt{3}} = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

Fill in the exact measurements (no decimals!) for the following.

1. $\sin(30^\circ) = \frac{1}{2}$

2. $\tan(30^\circ) = \frac{\sqrt{3}}{3}$

3. $\cos(120^\circ) = -\frac{\sqrt{3}}{2}$

4. $\tan(90^\circ) = \frac{0}{0} = \text{undefined}$

5. $\cos(30^\circ) = \frac{\sqrt{3}}{2}$

6. $\tan(180^\circ) = \frac{0}{0} = 0$

7. $\tan(300^\circ) = -\sqrt{3}$

8. $\tan(210^\circ) = \frac{\sqrt{3}}{3}$

9. $\cos(150^\circ) = -\frac{\sqrt{3}}{2}$

10. $\sin(330^\circ) = -\frac{\sqrt{3}}{2}$

11. $\sin(60^\circ) = \frac{\sqrt{3}}{2}$

12. $\sin(240^\circ) = -\frac{\sqrt{3}}{2}$

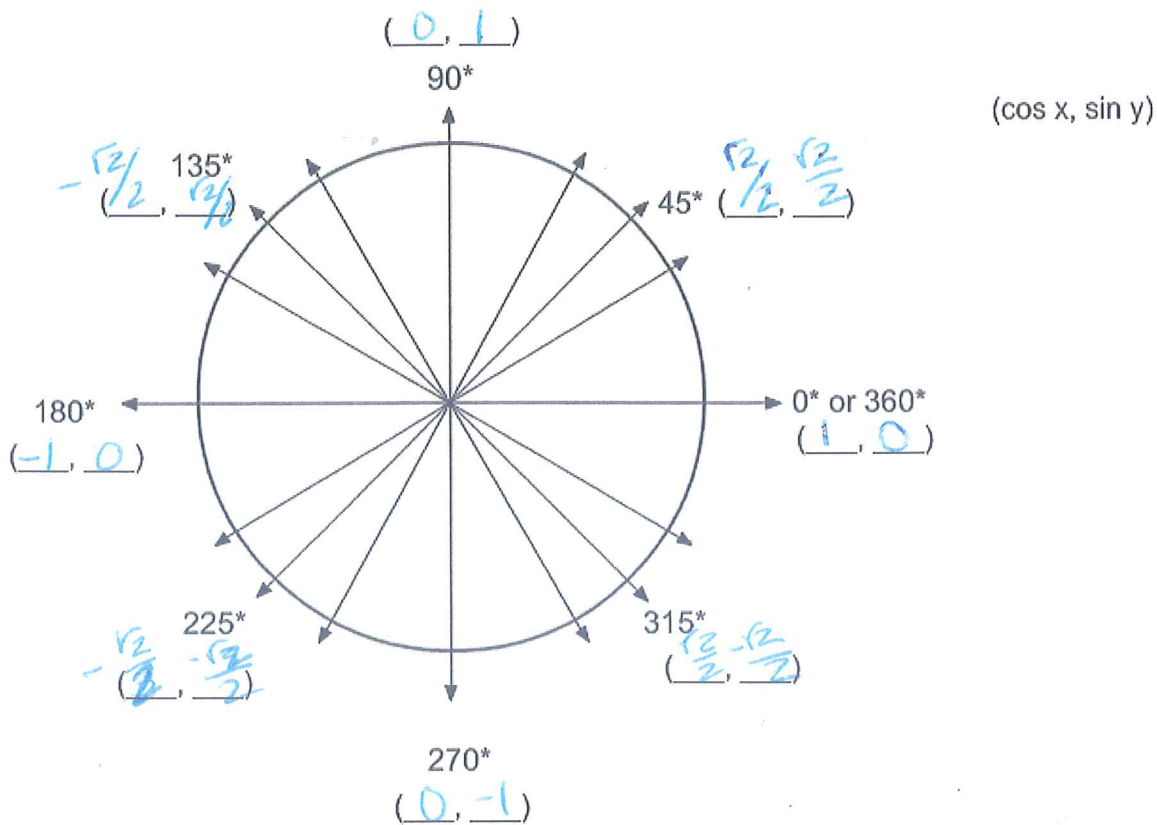
13. $\cos(270^\circ) = 0$

14. $\sin(360^\circ) = 0$

15. $\tan(330^\circ) = -\frac{\sqrt{3}}{2}$

Name: Key Hour: _____ Unit Circle Wksht 45-45-90

Complete ALL OF THE COORDIANTES of the unit Circle with all 45, 45, 90 measurements.



Fill in the exact measurements (no decimals!) for the following.

- | | | |
|--|---|--|
| 1. $\sin(180^\circ) = 0$ | 2. $\tan(45^\circ) = 1$ | 3. $\cos(45^\circ) = \frac{\sqrt{2}}{2}$ |
| 4. $\tan(315^\circ) = -1$ | 5. $\cos(135^\circ) = -\frac{\sqrt{2}}{2}$ | 6. $\tan(360^\circ) = 0$ |
| 7. $\tan(90^\circ) = \text{undefined}$ | 8. $\tan(180^\circ) = 0$ | 9. $\cos(270^\circ) = 0$ |
| 10. $\sin(90^\circ) = 1$ | 11. $\sin(225^\circ) = -\frac{\sqrt{2}}{2}$ | 12. $\sin(360^\circ) = 0$ |
| 13. $\cos(360^\circ) = 1$ | 14. $\sin(135^\circ) = \frac{\sqrt{2}}{2}$ | 15. $\tan(270^\circ) = \text{undefined}$ |