

Unit Circle Memorization - Practice Worksheet

Name: _____ Date: _____

Instructions: Fill in the missing radian measure, degree, cosine value, or sine value for each angle. Show your working where asked. Check your answers with the key below.

1. Convert 30 deg to radians.

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2. Convert $3\pi/4$ to degrees.

.....

3. What is $\sin(60 \text{ deg})$?

.....

4. What is $\cos(180 \text{ deg})$?

.....

5. What is the (cos, sin) coordinate at 90 deg?

.....

6. What is $\tan(45 \text{ deg})$?

.....

7. What is $\sin(210 \text{ deg})$?

.....

8. What is $\cos(300 \text{ deg})$?

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9. What is the (cos, sin) coordinate at $5\pi/6$?

.....

10. What is $\tan(270 \text{ deg})$?

.....

11. What is $\sin(315 \text{ deg})$?

.....

12. What is $\cos(7\pi/6)$?

.....

Answer Key

1. $\pi/6$

2. 135

3. $\sqrt{3}/2$

4. -1

5. (0, 1)

6. 1

7. $-1/2$

8. $1/2$

9. $(-\sqrt{3}/2, 1/2)$

10. undefined

11. $-\sqrt{2}/2$

12. $-\sqrt{3}/2$