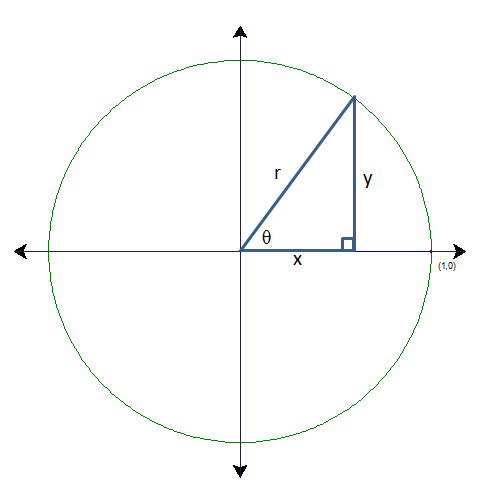
**13.3/13.6 Exact Values using the UNIT CIRCLE**

ACC Geometry Notes

The circle below is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ because the value of the radius is \_\_\_\_\_\_\_\_\_\_\_\_.



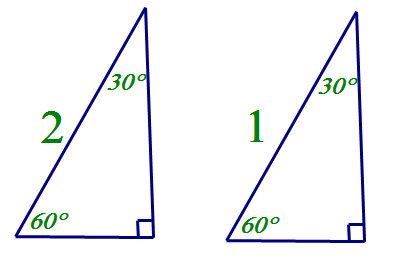
With radius= 1, find:

cos= \_\_\_\_\_\_\_\_\_\_

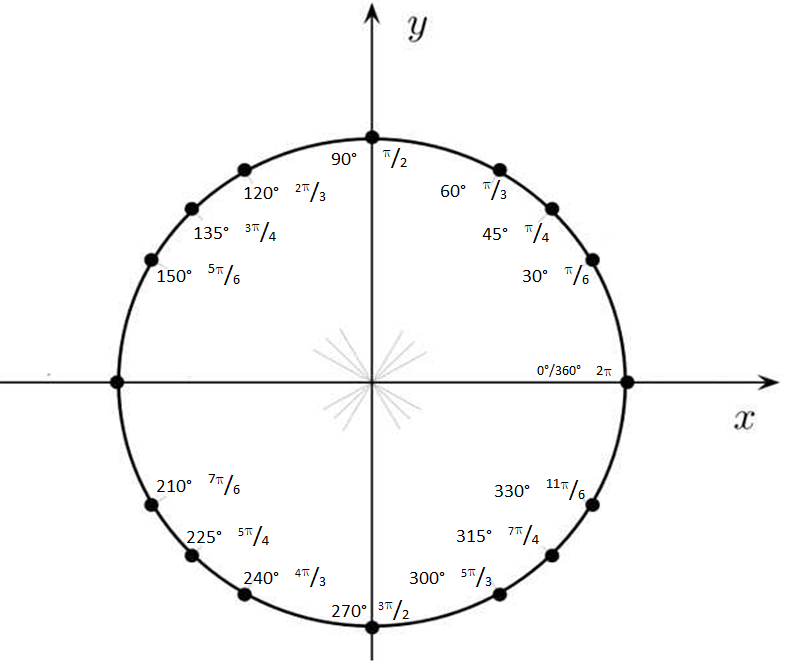
sin= \_\_\_\_\_\_\_\_\_\_

tan= \_\_\_\_\_\_\_\_

**Unit Circle**



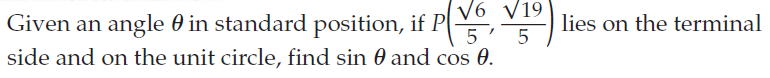
Find all points on the unit circle using special right triangles.



Find the exact value of each function by using the unit circle. Place the question # by the coordinates that correspond to the answer of the question.

1. cos (-240°) 2. tan 5/4  3. sin5

4. csc(11/4) 5. sec(-3/4) 6. cot 7/6



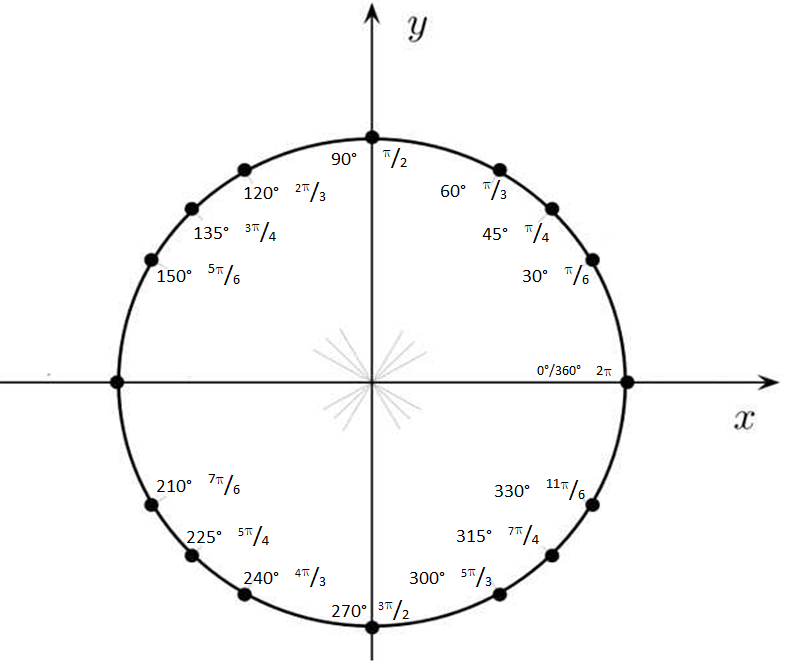
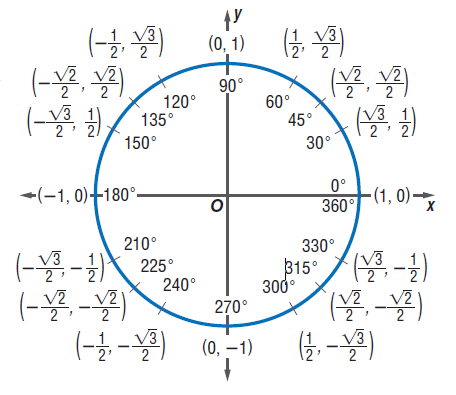
7.

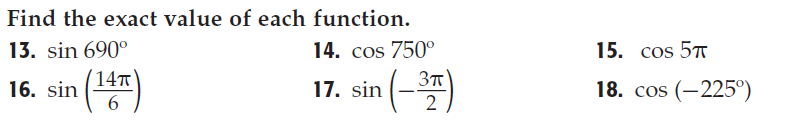
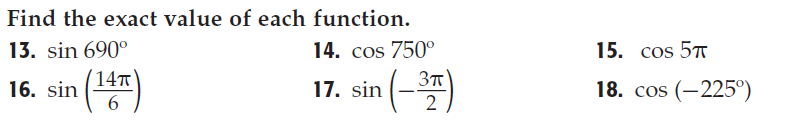
8. Find the exact value of the function. 2(sin45⁰)-6(cos135⁰).

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_ Hour\_\_\_\_\_

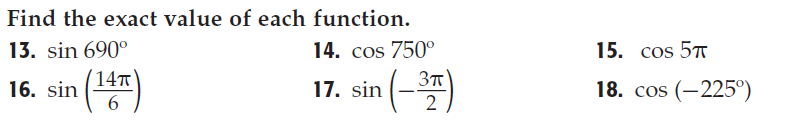
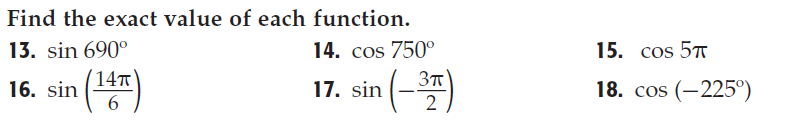
**Unit Circle Homework**

Find the exact value of each function by using the unit circle. Place the question # by the coordinates that correspond to the answer of the question.





1. 2. 3. sec 5



4. tan 5. cot 6. Csc (-225°)

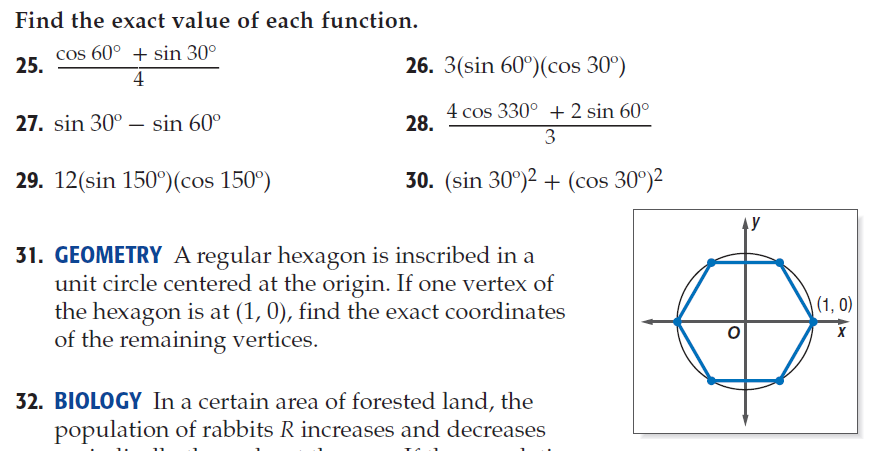
Directions: *Find the exact value of each function… and I mean EXACT.*

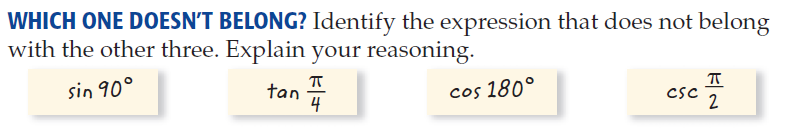
*No decimals!!!!!!!*

7. 8.

9. 10.

11. 12.

13. A Regular hexagon is inscribed in a unit circle centered at the origin. If one vertex of the hexagon is at (1,0), find the exact coordinates of the remaining vertices. Use the picture to help!



14.