**TRIGONOMETRY**

**Practice in Radian Measure**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

*Complete the following without using the Unit Circle or a calculator!!*

1. Find the exact value of . 2. Find the exact value of
2. Find the exact value of 4. Find the exact value of

5. Find the exact value of cot (3 6. Find the exact value of

7. How many radians does the second hand of a clock turn in 2 ½ minutes?

8. The London Eye has 32 capsules (each capable of holding 25 passengers with an unobstructed view of London!) What is the radian measure of the angle made between the center of the wheel and the spokes aligning with each capsule?

9. A water sprinkler can reach an arc of 15 feet, 20 feet from the sprinkler as shown. Through how many radians does the sprinkler rotate?

20 ft

15 ft