**HM3 – TRIG VALUES IN THE COORDINATE PLANE**  NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The following points are on the terminal side of an angle in standard position. Determine the exact values of the six trig functions of the angle.

1. (7, 24) 2. ( 3. 4. (8, 6)

5. 6.

7. Find the exact value of sin if and is an angle in Quadrant 1.

8. Find the exact value of csc if and is an angle in Quadrant 4.

9. Find the exact value of tan if and is an angle in Quadrant 2.

10. Find the exact value cos if and is an angle in Quadrant 3.

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Determine the Quadrant in which lies and find a positive and negative coterminal angle.

11. 12. 13.

Convert each radian measure to degrees and each degree measure to radians.

14. 15. 16.

Find the reference angle. Sketch a picture.

17. 18.

Use the Unit Circle to evaluate each trig function.

19. 20. 21. 22. 23.