**HW 8-1**

**Write the equation of the circle that satisfies each set of conditions.**

1. Endpoints of a diameter at and 2. Center at , tangent to the x-axis



**Use the information provided to write the standard form equation of the circle.**





**Find a coterminal angle between 0° and 360°.**



**Find a coterminal angle between 0 and 2π.**



**Put in decimal form.**

1. 22.

**Round to the nearest second.**

1. 24.

**HW 8-2**

**State the sign (+ or -) for a) sinθ, b) cosθ, and c) tanθ.**

1. 2. -450° 3. 4.
2. a) a) a)
3. b) b) b)
4. c) c) c)

**Without using a calculator, find the exact value.**

5. 6. 7. 8.

9. 10. 11. 12.

**HW 8-3**

**Find the values of the six trigonometric functions of an angle in standard position if the given point lies on the terminal side.**

1. 2. 3. 4.

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**Suppose is an angle in standard position whose terminal side lies in the given quadrant. For each function, find the values of the remaining five trigonometric functions of**

5. quadrant I 6. quandrant IV

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**Simplify as much as possible.**

7.  8. sin2 x cot x csc x 9. 

10.  11.  12. 