**Honors Math 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Unit 7 Part 2 Review

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| 1. Write the standard equation for the circle with center (5, -6) and diameter 8 in. | 1. Write the standard equation for the circle with center (–4, 3), that is tangent to the y-axis. |
| 1. Write the sine equation with amplitude of 3, period of , and that is shifted up 4 units. | 1. Put the following general form equation into the standard form equation of a circle:   Center:  Radius: |
| 1. Find a coterminal angle between 0° and 360° or between 0 and 2π radians. 2. -210° 3. 520° | 1. Switch to DMS or decimal form. 2. 154.28° 3. 237.12° |
| 1. Without a calculator, find the values or ratios for sinθ, cosθ, tanθ, secθ, cscθ, and cotθ.  |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | 1. Find the exact value of each expression using a coterminal angle: (1 pt ea.) (Show your work for credit!!) 2. cos 495° 3. sin 4. c. tan 5. tan -480° |
| 9. Given 180° < θ < 360° and tanθ = , what are sinθ and cosθ ? | 1. The terminal side of an angle in standard position contains the point (-5,7). Find all of the trigonometric ratios for this angle.  |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |
| 11. Simplify: cos2 x – cos4 x | 12. Simplify: |