**Geometry Formulas Review Assignment**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

Make a 3-column chart with the following rules/formulas as follows: **ALL IS TYPED!**

1st-Column🡺 List the item/term/Name.

2nd Column🡪 State its rule/formula

3rd Column🡪 Give a NUMERICAL example that includes a ***diagram*** and ***calculations***

**\*\*\*\* see the format below.\*\*\*\*\*\***

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| --- | --- | --- |
| 1. Circumference of a circle | C = 2 p r or C = p d | In. |

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| 1. Circumference of a circle 2. Length of an arc of a circle 3. Area of a Rectangle 4. Area of a Triangle 5. Area of a parallelogram 6. Area of a circle 7. Area of a kite 8. Area of a rhombus 9. Area of a trapezoid 10. Area of a regular polygon 11. Area of a sector of a circle 12. Surface Area of a Sphere 13. Surface Area of a Hemisphere with a circular base 14. Surface area of a hemisphere without a Circular base 15. Surface Area of a right Cylinder 16. Lateral Area of a right cylinder 17. Surface area of a right cone 18. Lateral area of a right cone 19. Volume of a sphere 20. Volume of a hemisphere 21. Volume of a prism 22. Volume of a Pyramid 23. Volume of a cone 24. Length of a midsegment of a trapezoid 25. Pythagorean Theorem 26. Midpoint between two points on a coordinate plane 27. Distance between two points on a coordinate plane 28. Slope-intercept form of the equation of a line 29. Slope formula given two points 30. Point slope form of an equation of a line 31. Lengths of the other sides of an isosceles, right triangle with leg length x 32. Lengths of the other sides of a 30-60-90 triangle with shortest leg length x 33. Transformation Rule for reflecting over the y = x line 34. Transformation Rule for reflecting   over the y= -x line   1. Transformation Rule for reflecting   over the y axis   1. Transformation Rule for reflecting   over the x-axis   1. Transformation Rule for rotating 90 around the origin 2. Transformation Rule for rotating 180 around the origin 3. Transformation Rule for rotating 270 around the origin 4. Dilation rule (about the origin) 5. Equation of a circle in standard form 6. Polygon sum formula 7. Population density formula 8. Mass Density formula 9. Segment relationships in a circle   (Two chords intersecting inside a circle)   1. Segment relationships outside a circle   (Two secants/secant & tangent intersecting outside a circle)   1. Angle relationships in a circle   (Two chords intersecting inside a circle)   1. Angle relationships outside a circle   (Two secants/secant & tangent/two tangents-- intersecting outside a circle)   1. **The Unit Circle** – (def. & label & draw the ◯) 2. What does **SohCahToa** Stand for? Give an *application* example.   ***On a separate sheet of paper***, please do the EIGHT basic constructions:  -copying a segment  -copying an angle  -perpendicular bisector of a segment  -angle bisector  -perpendicular to a line through a point on the line  -perpendicular to a line through a point NOT on the line  -parallel to a line through a given point  -equilateral triangle  **1) *State the centers of a triangle*** and **2)** ***What is special about each one***.  **3) Construct an example of each as well**. **[ALL on 1 unlined paper]**  -orthocenter  -circumcenter  -centroid  -incenter |