**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.\*\*\*\*\*\***

|  |  |  |
| --- | --- | --- |
| 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 line1. Transformation Rule for reflecting

over the y axis1. Transformation Rule for reflecting

over the x-axis1. 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  |