Geometry Summer Assignment Name _____

I. Rounding Numbers. Round each of the following to the parameter indicated.

1) 12.456 to the nearest tenth _____

2) 572.972 to the nearest tenth _____

3) 4.049 to the nearest tenth _____

4) 37.823 to the nearest hundredth _____

5) 97.78974 to the nearest thousandth _____

6) $45.0967 to the nearest cent _____

7) $678.398 to the nearest dollar _____

8) 53.621 to the nearest whole number _____

II. Simplify each expression: Show work that supports your answer to each problem.

1) $2+7\cdot 5$

2) $27-(4+2)(5)-3^2$

3) $8+4\div 2-5$

4) $(6-8)^2$

5) $(-6 \times 2) \div -4$

6) $2 \times 2(-3 - 1)$

7) $-4 - (1 - 5) - (-4)^2$

8) $(6 + 25 - 7) \div 6$

9) $2 + 12 \div 2 + 1$

10) $2 - 8 \div -2 - 3 - -12 \div -6 \times 2$

III. Simplify each expression by combining like terms and using the distributive property: Show support steps as necessary.

1) $-6k + 7k$

2) $n + 4 - 9 - 5n$

3) $-5x + 3(6 + 7x)$

4) $-2n - (9 - 10n)$

5) $-9(6m - 3) + 6(1 + 4m)$

6) $-y - 10y$

IV. Evaluate each expression with the values given. Show work to support your answer to each problem.

1) $a-\ 5\ -b$; when a = 10 and b = 4

2) y^2-x ; when x = 4 and y = 7

3) $x+y^2$; when x = 3 and $y=-5$

4) $y-(z+z^2)$; when y = 6 and z = 2

5) when x = -2 , y = -6, and z = 8

6) $y-(4\ -x-y\div\ 2)$; when x = 2 and y = 4

V. Solve each equation for the value(s) of the variable: Show work to support your answer to each problem.

1) $15\ +b=\ 23$

2) $-8=\frac{x}{2}$

3) $-24=-3x$

4) $144\ =-12(x+\ 5)$

5) $8+5x=8$

6) $5n+\ 34\ =-2(1\ -\ 7n)$

7) $3(2x+4)=6(x+2)$

8) $x^2=16$