Honors Geometry Summer Assignment 2025

Show all work!! Bring Assignment with you the first full day of class.

I. Rounding numbers:

A) Round each of the following to the nearest TENTH

a) 17.76 _____
b) 197,248 _____
c) 295.95 _____

B) Round each number to the nearest hundredth

a) 0.244 _____
b) 343.32913 _____

C) Round to the nearest whole number

a) 56, 897.37 _____
b) 63.278 _____
c) 456.5398 _____

D) Round to the nearest WHOLE number:

a) 1,457.256 _____
b) 24.524 _____
c) 572.6 _____

E) Round to the nearest CENT

a) $45.3567 _____
b) $1,289.07512 _____
c) $626.13427

II. Evaluate Each of the Following Using Order of Operations: Show work!

A) $5+(16+2)\div 3$

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

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

D) $(-11-6--5+1+3\times 2)\div -5$

III. **Evaluate each using the values given.**

A) $p(q\div 3-p)$; use $p=-6$, and $q=-3$

B) $z \div 6 + x + x - 5$; use $x = 1$, and $z = 6$

C) $x^2 - 3x + 4$; use x = -7

IV, Simplify each expression.

A) $-9 - 6(-v + 5)$

B) $9(7k + 8) + 3(k - 10)$

IV. Simplify the compound inequalities:

A) $6 \leq x + 6 \leq 11$

B) $-3 < m - 5 < -1$

C)Write a compound inequality from x > 5 and x < 12

V. Solve each of the following equations:

A) $4n - 2n = 4$

B) $-3(4x + 3) + 4(6x + 1) = 43$

C) $24a - 22 = -4(1 - 6a)$

D) $(4k + 5)(k + 1) = 0$

E) $2x^2 = 18$

F) $\frac{7}{b+5} = \frac{10}{5}$

VI. Factor each of the trinomials below:

A) $x^2 - 4x + 24$

B) $4v^2 - 4v - 8$

C) $5x^2 - 18x + 9$

D) $2n^2 + 5n + 2$

VII. SOLVE by Factoring:

A) $n^2 + 3n - 12 = 6$

B) $-4k^2 - 8k - 3 = -3 - 5k^2$

C) $b^2 + 5b - 35 = 3b$

VIII. Solve by the Quadratic Formula:

A) $2x^2 - 3x - 5 = 0$

B) $4b^2 + 8b + 7 = 4$

IX. Find the slope of each of the following lines:

A) y – 6 = ½(x + 7) _____

B) x = 3 _____

C) Y = 4 _____

D) Y = - 8x _____

E) A vertical line _____

F) A horizontal line _____

G) 2x + 3y = 9 _____

H) A line containing points (3, -2) & (-4, 8)

X. Solve each system of Linear equations by substitution or elimination:

A)
$$-4x + 9y = 9$$
$$x - 3y = -6$$

B)
$$-4x - 15y = -17$$
$$-x + 5y = -13$$