Summer Packet for Students entering Geometry CP 322 Due: Monday, August 25, 2025

Name: ____

This packet contains topics you have learned in previous courses that are most important to know for this class. Please read the directions and **show your work** for each problem. Then write your answers on the answer sheet.

I. Use Order of Operations to simplify each expression.

1.
$$16-2(4+1)+5$$

2.
$$(2+3)^2 + (6-(-3))^2$$

II. Write the answer:

2.
$$5-18 =$$

$$3. -\frac{3}{9} =$$

5.
$$-2(5x-8) =$$

III. Solve the equation for \underline{x} . Remember to show your work!

1.
$$6x + 30 = 18$$

2.
$$2x + 5 = 6x - 23$$

3.
$$3(x-12) = -24$$

4.
$$5 + \frac{2}{3}(x+1) = 7$$

IV. Factor

1.
$$6x + 10$$

2.
$$x^2 - 9$$

3.
$$x^2 - 10x + 21$$

4.
$$6x^2 + 11x - 10$$

V. Factor and solve each quadratic equation. Remember to show your work!

1.
$$x^2 + 6x + 8 = 0$$

2.
$$x^2 - 5x = 24$$

VI. Simplify the radical. Write the answer as a reduce radical.

1.
$$\sqrt{36}$$

2.
$$\sqrt{100}$$

3.
$$\sqrt{8}$$

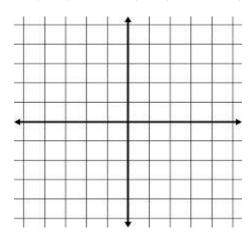
4.
$$\sqrt{27}$$

5.
$$5\sqrt{12}$$

6.
$$4\sqrt{18}$$

VII. Plot and label (using the letter) each ordered pair on the graph:

- A (1, -3)
- B (-2, 5)
- C (0, 4) D (-3, 0)



VIII. Find the slope and y-intercept:

1.
$$2y = 6x - 2$$

2.
$$3x + 4y = 1$$

Slope = _____ y-intercept = ____

slope = _____ y-intercept = _____

Na	ame:	
Ι	Use Order of Operations to simplify each ex	pression
	1	
	2	
II.	Write the answer	
	1	
	2	
	3	
	4	
	5	
	6	
Ш	. Solve the equation for x	
	1	
	2	
	3	
	4	
ΙV	7. Factor	
	1	
	2	
	3	
	4	

Answer Sheet Geometry 322

V. Factor and solve each quadratic equation		
1		
2		
VI. Simplify the radical		
1		
2		
3		
4		
5		
6		
VII. Plot and Label – DO THE WORK ON THE GRAPH		
VIII. Find the slope and y-intercept		
1. Slope = y-intercept =		
2. Slope = y-intercept =		