

2022 Summer Packet for Students entering Geometry (328)**Due Friday, 8/26**

Name: _____

Geometry 328

This packet contains the topics you have learned in your previous courses that are most important to Geometry. Please read the directions, do the problems (with all work shown), and be prepared to turn this in on the first day of school.

I. Use Order of Operations to simplify each expression.

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

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

II. Solve the equation for x. Remember to show your work!

1. $6x + 30 = 18$

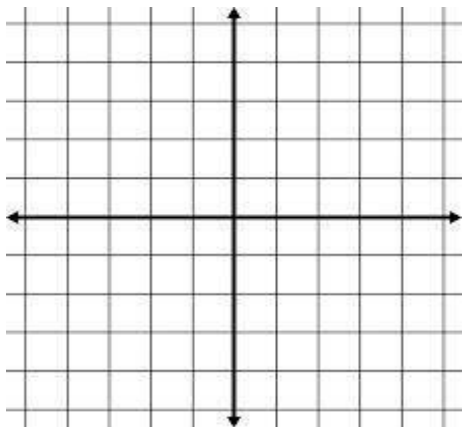
2. $2x + 5 = 6x - 23$

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

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

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

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



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. $x^2 - 5x = 24$