



HOLY SPIRIT
PREPARATORY SCHOOL

Geometry

Summer Assignments

Academic Year - 2023-2024

Course Information

Department: Mathematics and Natural Sciences

Class Description: This course will have a particular focus on logical reasoning and the development of formal geometric proofs using theorems and postulates. The instruction emphasizes visualizing and understanding Euclidean properties, making and verifying conjectures, and applying concepts to real-world scenarios.

No Text Required

Contact cnannis@holyspiritprep.org for any questions

Summer Assignment

Learning objectives

- A quick review of Algebra I that will prepare you for Geometry

Estimate time of completion

- 0.5-1 hour

Details of Assignment

- Complete the following 10 problems by the first day of school (Wednesday, August 9th)
- The following page will be turned in for a classwork assignment grade!!

Rising Geometry

Ms. Nannis

Summer 2023

Name: _____

Rising Grade Level: _____

Due First Day of Class!!

Directions: Please solve the following problems to the best of your ability and box your answers at the end. The honor code applies.

Part I. Solve each equation by factoring using any method of your choice.

1. $4p^2 - 8p - 60 = 0$

2. $5x^2 + 30x - 35 = 0$

3. $a^2 - 9a + 18 = 0$

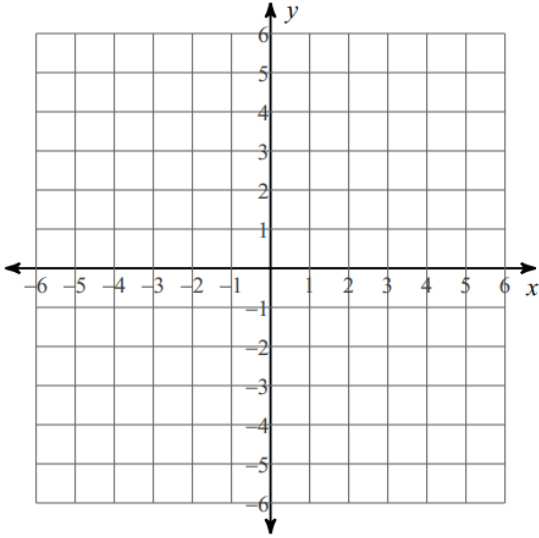
4. $18a^2 - 138a - 48 = 0$

5. $21x^2 - 50x - 16 = 0$

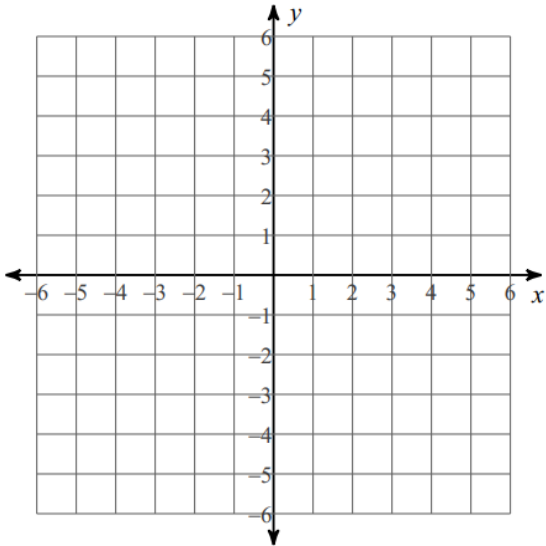
6. $5a^2 - 7a = 0$

Part II. Sketch the graph of each line.

7. $y = -\frac{1}{3}x + 1$



8. $y = -x$



Part III. Find the distance between each pair of points. Round your answer to the nearest tenth. (*hint: use the distance formula!*)

9. $(8, -6), (-3, 4)$

10.

