GT/PAP Geometry Summer Assignment

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The summer assignment will count as a quiz grade. Be prepared to turn in the assignment on the first day of class. If you have any questions about directions, you may e-mail us. We will try to check our e-mail at least once a week during the summer.

Instructions:

1. Please do all work on separate notebook paper. Place your answers on the answer page provided. Staple work to the back of the answer sheet. You **WILL NOT** turn in this packet.
2. Show **ALL** of the algebra work to receive credit.
3. Your work **MUST** be done in **PENCIL!!**
4. Leave your answer in simplest fractional form. **NO** decimals allowed.

**Part I: Solve the following equations for the variable.**



**Part II: Write the equation of the line described. Write the final equation in slope-intercept form. When given a point instead of the y-intercept, use point slope form to begin your work. Drawing a graph DOES NOT count as work.**

1. The line with slope and a y-intercept of .
2. The line passing through and parallel to the line .
3. The line passing through and perpendicular to the line .
4. The line passing through and .
5. The line with a slope of and passing through the origin.
6. The line with a y-intercept of and parallel to the line
7. The line through and .
8. The horizontal line through .
9. The line passing through and perpendicular to the line through and .
10. A vertical line through

**Part III: Find the midpoint of the given points. Remember, the midpoint formula is…**

1. and
2. and
3. and
4. and
5. and

**Part IV: Find the distance of the given points. Remember, the distance formula is…**

1. and
2. and
3. and
4. and
5. and

**Part V: Decide whether the following lines are parallel, perpendicular, or neither by solving for y and checking the slopes. Remember: Parallel lines have the same slope and Perpendicular lines have opposite reciprocal slopes.**

1. Line A: , Line B:
2. Line A: , Line B:
3. Line A: , Line B:
4. Line A: , Line B:
5. Line A: , Line B:

**Part VI: Solve each system of equations using substitution or elimination. Put your answer as a coordinate pair. Graphing is NOT an acceptable method.**

1. Line A: , Line B:
2. Line A: , Line B:
3. Line A: , Line B:
4. Line A: , Line B:
5. Line A: , Line B:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place your answers on this page. Staple the graph picture and **ALL** of your work to this page.

1. \_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_
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37. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
38. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
39. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
40. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_