Dear HONORS GEOMETRY 10 Students:

To prepare you for the Honors Geometry Course, we have created **summer work** that is **required** and will be ***due and collected on the first day of school***. You should be expected to be assessed on these skills during the first week of school. The summer assignment and assessment will be reflected on the First Marking Period report card.

The summer work is located on our Google Classroom Website. You should all have a username and password which has been used throughout the 2016-2017 school year.

Google Classroom Website: classroom.google.com
Class Code: md6k5r3

The summer work requires that students complete notes while watching a video and then complete practice problems**.** If there is an issue with google classroom, on the next page are the links for 6 videos. Each of the videos on FlippedMath.com has a packet of notes that follow along with the video lessons and example problems to accompany them. You can find this by clicking on the "Packet" file underneath the video. The "Practice Solutions" packet has the solutions to the practice problems so you can check your work. **The notes and practice problems DO NOT have to be turned in to your teacher.** They are for your own use only.

The final assignment is an assessment. Everyone should review notes/practice and prepare prior to completing the checkpoint. The work is a compilation of the Algebra skills that you should be proficient in prior to September. It is geared towards skills that should have mastered been mastered in grade 9, but tend to struggle with during Honors Geometry.

Once you have watched all of the videos, you will responsible to complete the Summer Work Assessment which starts on page 3 or is the last assignment on google classroom. **The Summer Work Assessment should be printed out, completed, and turned into your teacher on the first day of school.**
SHOW ALL WORK/STEPS FOR FULL CREDIT!

We look forward to meeting you next year,
Your Honors Geometry 10 Teachers

Geometry Summer Work Videos:

1) 6.3: Equations in Parallel/Perpendicular Form

http://algebra.flippedmath.com/63-equations-in-parallelperpendicular-form.html

2) 8.2: Solving Systems by Substitution

http://algebra.flippedmath.com/82-solving-systems-using-substitution.html

3) 8.3: Solving Systems by Elimination

http://algebra.flippedmath.com/83-solving-systems-using-elimination.html

4) 11.1: Simplifying Square Roots

http://algebra.flippedmath.com/111-simplifying-radicals.html

5) 11.2: Operations with Square Roots

http://algebra.flippedmath.com/112-operations-with-square-roots.html

6) Factoring Quadratics

https://www.youtube.com/watch?v=IKyUuvuIIbk

***** This video is a YouTube video and does not come with notes/examples. You should take your own notes and, if you'd like further practice, it can be found at:**

http://cvhs.johnston.k12.nc.us/common/pages/DisplayFile.aspx?itemId=15821214

and

http://cdn.kutasoftware.com/Worksheets/Alg1/Factoring%202.pdf

Name _____

Summer Work Assessment

Directions: Answer each of the following **showing all your work**.

For questions 1-4, write an equation in slope-intercept form that satisfies the following criteria.

1) through: $(3, 0)$, parallel to $y = \frac{2}{3}x + 1$

2) through: $(4, 1)$, parallel to $x + 2y = 4$

3) through: $(-1, -1)$, perp. to $y = -2x - 4$

4) through: $(-4, -5)$, perp. to $-4x + 2y = 10$

5) Determine which lines, if any, are parallel, perpendicular, or neither.

A: $2x - 3y = 8$

B: $12y = 8x - 2$

C: $9x + 6y = 12$

D: $2x - y = 1$

Solve the system using substitution.

6. $y + x = 5$

   $x = y - 3$

7. $y = 4x$

   $x + y = 5$

8. $2x + y = 7$

   $x + y = 1$

$2x + y = 7$
$4x + 2y = 14$ Solve the system using elimination.

9.

$-3x - y = -15$
$8x + 4y = 48$

10.

$2x + 3y = -10$
$-4x + 5y = -2$

11.

For 12-15, write the square root in simplest form.

12. $\sqrt{125}$

13. $-\sqrt{98}$

14. $4\sqrt{300}$

15. $-7\sqrt{16}$

For 16-20, put the expression into simplest form.

16. $\sqrt{3} - 2\sqrt{12}$

17. $5\sqrt{5} + 3\sqrt{5} - 4\sqrt{7}$

18. $4\sqrt{3} * 2\sqrt{8}$

19. $\frac{3\sqrt{15}}{6\sqrt{3}}$

20. $\left(4 - \sqrt{7}\right)(2 + 5\sqrt{7})$

For 21-25, factor the quadratics completely.

21. x^2-5x+4

22. $x^2+12x+32$

23. $x^2-4x-12$

24. $2x^2+10x-28$

25. $3x^2+10x-25$

26. $6x^2-13x+5$