2017   *ALGEBRA 2*   2018
WEEKLY ASSIGNMENT SHEET FOR
FEB. 05 TO FEB. 09
THIRD QUARTER (Q3). WEEK 3 OF 9. (Q3-3)

INSTRUCTOR: MR. ANDRUS.   ROOM: 514

CONTINUING OBJECTIVES:
1. *Improve organization skills.*
2. *Move from memorizing and repeating to applying and thinking.*
3. *Read, write and interpret math statements.*
4. *Use mistakes as opportunities to learn.*
5. *Expand successes and build up weaknesses. Continue to move forward.*

CURRENT OBJECTIVES:
1. *Algebra Review and Systems of Equations and Inequalities.*
   Solve a system of two equations by graphing.
   Solve a system of two inequalities by graphing.
   A2.ACE.1*, A2.ACE.2*, A2.ACE.3, A2.ACE.4*
2. *REVIEW.*

MONDAY (IF YOU DID NOT ATTEND LAST FRIDAY'S CLASS.)→ →
1. After this week, what % of Q3 is complete? What % of S2 grade is complete?
2. Read & Study Monday's worksheets. Record 3 keywords.
3. Complete all problems on Monday's worksheets.
4. Keep this work in your binder.

Please update last week's test. Please turn "IN". Check your last week's assignment sheet for Friday's work. Please complete this work. ☺☺☺

TUESDAY (IF YOU DID NOT ATTEND LAST FRIDAY'S CLASS.)→ →
1. Grade/UPDATE/discuss Monday's work.
2. Login to my.hrw.com Go to online textbook for algebra 1.
3. Click on the book pages tab. Enter 161 in the page box. Click go.
4. Record 3 keywords (and definitions) from the vocabulary section at the top (problems 1 – 5).
5. Complete problems 1 – 34. Explore other resources from this online book as needed.
6. Use grid paper for graphing problems. Keep this work in your binder.

Please complete Monday's assignments and use them to prepare for this week's test. ☺☺☺

WEDNESDAY (IF YOU DID NOT ATTEND CLASS ON TUESDAY)→→
1. Grade/UPDATE/discuss Tuesday's work.
2. Complete the test review sheet.
3. Journal: DESCRIBE the steps needed to solve a system of inequalities.
4. Turn this work in before leaving class today.

Please complete Tuesday's assignments and use them to prepare for this week's test. ☺☺☺

THURSDAY (IF YOU DID NOT ATTEND CLASS ON WEDNESDAY)→
1. Grade/UPDATE/discuss Wednesday's work. Review.
2. **Weekly test Q3-3.**
3. **You may use all notes on this test.**
4. **If you did not attend class yesterday, your first take will count as your new test problems. Your 2nd take will count as your test score. Additional takes will be updates.**

Please complete Wednesday's assignments and use them to prepare for this week's test. ☺☺☺

FRIDAY (IF YOU DID NOT ATTEND CLASS ON THURSDAY)→
1. Update yesterday's test.
2. Complete all items on Problem Solving Q3-3 and
3. turn it in before leaving class today.

Please complete the weekly test today. ☺☺☺

Monday's worksheet q3-3.

◆ Skill A Graphing systems of linear inequalities

Recall A system of linear inequalities is graphed in much the same way as a system of equations. Solve each inequality for y and then graph the inequalities as solid or dotted lines on the same coordinate plane. Shade the region that contains the solutions to both inequalities.

◆ Example
Graph.
$$\begin{cases} 3x + y > 8 \\ x + y \leq 4 \end{cases}$$

SOLUTION STEPS

$3x + y > 8$
    $y > 8 - 3x$ $y =$ form

to graph this inequality
use $y = 8 - 3x$ use dashed line (because > or <). shading is above the line (because y >), but don't shade until the final solution.

$x + y \leq 4$
    $y \leq 4 - x$ $y =$ form

to graph this inequality
use $y = 4 - x$ use a solid line (because ≥ or ≤). shading is below the line (because y <), but don't shade until the final solution.
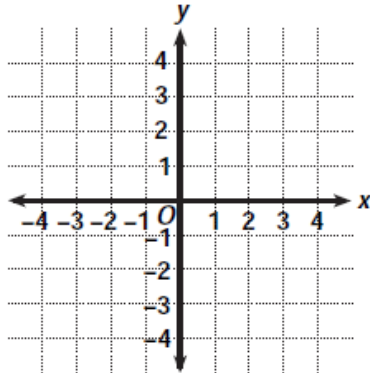
THE FINAL SOLUTION IS TO SHADE THE SECTION ABOVE THE DASHED LINE (BECAUSE y >) AND BELOW THE SOLID LINE (BECAUSE y ≤).
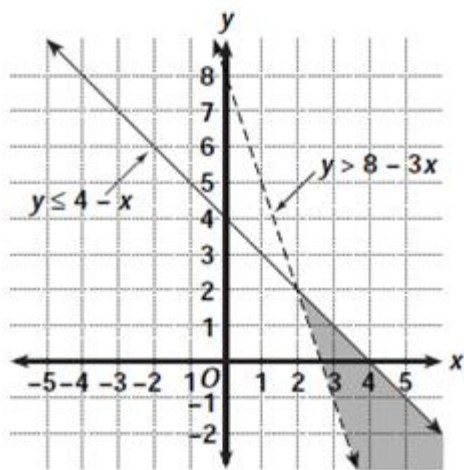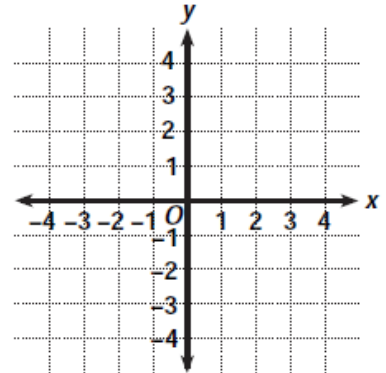
Monday's worksheet con't q3-3.

Graph each system of inequalities on the grid provided.
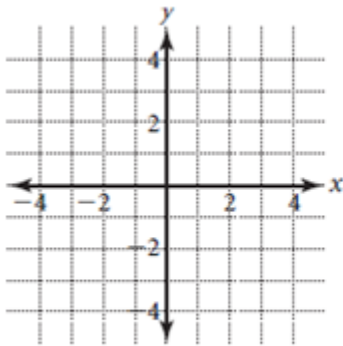
1. $\begin{cases} y < 8x - 4 \\ y > x - 2 \end{cases}$

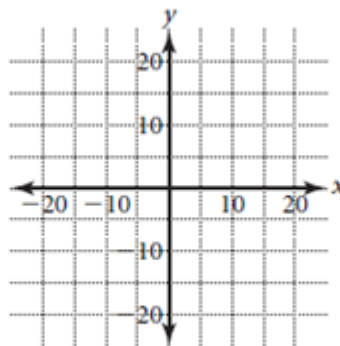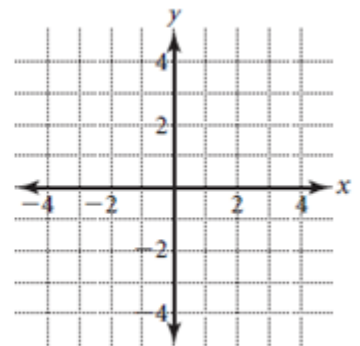2. $\begin{cases} y - 2x \geq 3 \\ 2y + x \geq -5 \end{cases}$

7. $\begin{cases} y < 3x + 8 \\ y > -6x - 3 \end{cases}$
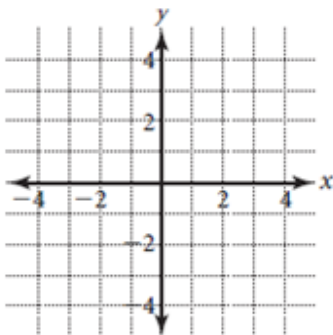
8. $\begin{cases} y > 4x - 7 \\ y < 12 \end{cases}$

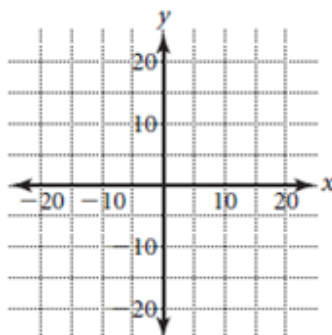9. $\begin{cases} y \geq -1 \\ y < 2 - x \end{cases}$

Solve these systems of EQUATIONS (this is the stuff from last week, these are not inequalities like the above.)

Solve each system by graphing.

5. $\begin{cases} y = \dfrac{1}{2}x \\ y = -x + 3 \end{cases}$

6. $\begin{cases} y = x - 2 \\ 2x + y = 1 \end{cases}$

7. $\begin{cases} -2x - 1 = y \\ x + y = 3 \end{cases}$