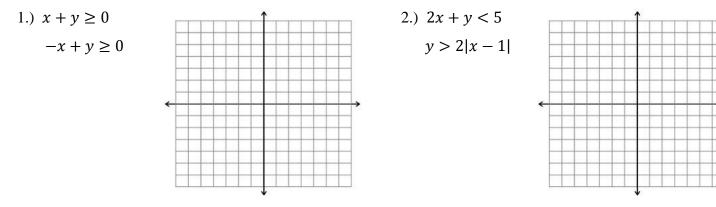
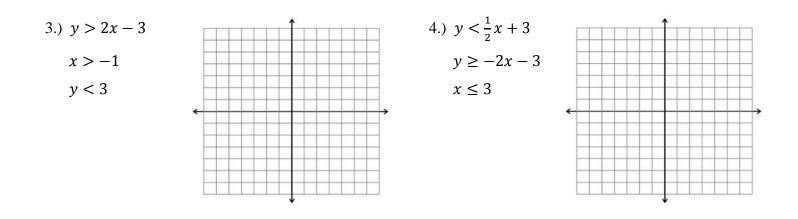
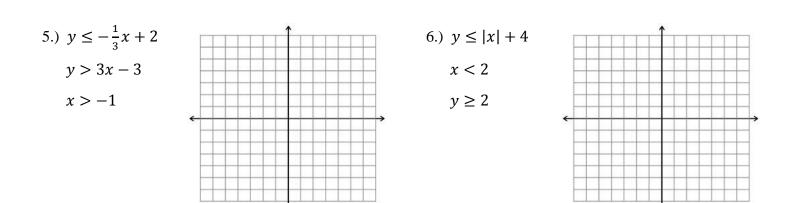
## Review Lessons 3.3 & 3.4 Worksheet

Name:

## Graph the system of inequalities.







Solve the system using any algebraic method.

7.) x - 2y + 4z = -192x + y - 3z = 143x + y + 2z = 5

8.) x - 2y - 3z = -74x + 5y - 2z = -7-2x + y + z = -7

9.) x + 5y - 2z = -1-x - 2y + z = 6-2x - 7y + 3z = 7 solution: \_\_\_\_\_

solution: \_\_\_\_\_

solution: \_\_\_\_\_

10.) 
$$6x + y - z = -2$$
  
 $x + 6y + 3z = 23$   
 $-x + y + 2z = 5$ 

11.) 4x - 8y + 2z = 10-3x + y - 2z = 62x - 4y + z = 8

12.) -x + 5y - z = -162x + 3y + 4z = 18x + y - z = -8 solution: \_\_\_\_\_

solution: \_\_\_\_\_

solution:

13.) Mukwonago was the big winner at last year's Classic 8 Conference track meet with the help of 20 individual-event place winners earning a combined 68 team points (in other words, MHS had 20 people place either 1<sup>st</sup>, 2<sup>nd</sup>, or 3<sup>rd</sup> and scored a total of 68 total team points). A 1<sup>st</sup> place finish earns 5 team points, a 2<sup>nd</sup> place finish earns 3 team points, and a 3<sup>rd</sup> place finish earns 1 team point. MHS had a stong 2<sup>nd</sup> place showing, with as many 2<sup>nd</sup> place finishers as 1<sup>st</sup> and 3<sup>rd</sup> place finishers combined. Exactly how many athletes finished in 1<sup>st</sup> place? 2<sup>nd</sup> place? 3<sup>rd</sup> place?

14.) You and two friends buy snacks for a field trip. You spend a total of \$8, Jeff spends \$9, and Curtis spends \$9. The table shows the amounts of mixed nuts, granola, and dried fruit that each person purchased. What is the price per pound of each type of snack?

	<b>Mixed nuts</b>	Granola	<b>Dried fruit</b>
You	1 lb	0.5 lb	1 lb
Jeff	2 lb	0.5 lb	0.5 lb
Curtis	1 lb	2 lb	0.5 lb