Alg 1 Honors
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ID: 1

Midterm Review 2019-20 (PART 2)

Date\_\_\_\_\_ Period\_\_\_\_

Solve each equation.

1) 
$$-4 - |2x - 4| = -18$$

2) 
$$6-3|x-4|=24$$

SOLVE each compound inequality. Circle the solution. Then GRAPH its solution.

3) 
$$-4 + n \ge -4$$
 or  $2n + 4 \le 10$ 

4) 
$$-1 < 9 - 2x \le 5$$

5) 
$$3x - 10 \ge 4x - 10$$
 and  $-7 - 2x > 10 - 3x$ 

Solve each inequality and graph its solution.

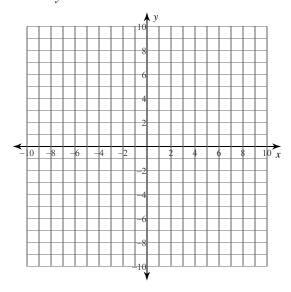
6) 
$$-8|8k-5|-6 \ge -110$$

7) 
$$5 - 3|6 - 5x| \ge 92$$

8) 
$$-3 |8m + 10| + 5 \le -85$$

Solve the system by graphing; Then check the solution algebraically

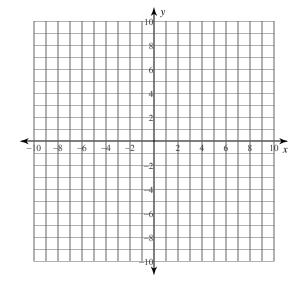
9) 
$$2x + 3y = 27$$
  
 $x - y = -4$ 



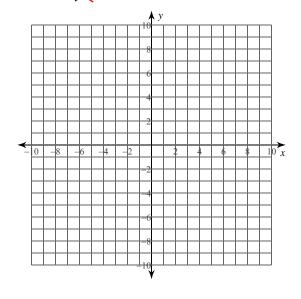
Sketch the solution to each system of inequalities.

10) 
$$y > -\frac{4}{3}x - 6$$
  
 $y > \frac{5}{3}x + 3$ 

$$y > \frac{5}{3}x + 3$$



11) 
$$3x - 2y \ge -8$$
  
 $x + 2y \le -2$ 



Solve each system by elimination. Then check the solution algebraically

12) 
$$8x + 6y = -18$$
  
 $13x - 6y = 18$ 

13) 
$$-5x + 12y = -47$$
  
 $-5x + 10y = -45$ 

Solve the system by substitution. Then check the solution algebraically

14) 
$$y = 2x - 30$$
  
 $8x - 6y = 200$ 

Solve	USING	ANY	METHOD.	Then	check	the so	olution	algebra	ically
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15) 
$$14x - 13y = -180$$
  
 $-2x + y = 36$ 

16) Flying with the wind a plane went 250 mph. Flying into the same wind the plane only went 202 mph. What is the speed of the wind? How fast would the plane go if there were no wind?

Define variables: X=\_\_\_\_\_

Y=\_\_\_\_

Define system:

EQ1: \_\_\_\_\_

EQ2: \_\_\_\_\_

Solve the system:

Answer (in words):

Define variables:	X=	 
Define system:	Y=	
•	1:	 <del></del>
EQ	2:	 
Solve the system:		

17) The water park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A