FOR ALL STUDENTS TAKING GEOMETRY 2021-2022

SUMMER REVIEW PACKET

NAME_____

To all Orangeburg Prep Math Students:

In an effort to continue to improve our standardize test scores and prevent knowledge loss over the summer break, you are asked to complete the attached worksheets and be prepared to turn them in on the first day of classes. The questions in the packet focus on the skills you were taught in your previous math courses. Some problems may be a bit involved, so it is not a good idea to wait until the last minute.

Work needs to accompany each problem and all answers should be in simplified form. The PRINTED packet is due at the beginning of class on Aug. 19 and will be counted as a project grade. A score of 80% will be given if every problem is attempted. Additional points, up to 20%, will be given for accuracy.

You will also be given a quiz on this packet during the first week of school, so make sure to bring questions that you have during Open House on Aug. 17. Any assignment not turned in on time will receive a 10 point deduction for each day that it is late.

Enjoy your summer vacation and your math packet. We look forward to a great school year starting in August.

The Math Department

HONOR CODE: I promise that I completed this summer review packet independently from any other student. I used only the resources given in this packet. I did NOT use Photomath or any similar program!

PARENT:_____

STUDENT:_____

Helpful Websites

www.regentsprep.org www.khanacademy.org www.purplemath.com/modules www.Aleks.com (a website where you can subscribe for individual math lessons)

TOPIC 1: GRAPHING ORDERED PAIRS

Points in the coordinate plane are named by **ordered pairs** of the form (x, y). The first number, or *x*-coordinate, corresponds to a number on the *x*-axis. The second number, or *y*-coordinate, corresponds to a number on the *y*-axis.

EXAMPLE

Write the ordered pair for each point.

a. A

The *x*-coordinate is 4. The *y*-coordinate is -1. The ordered pair is (4, -1).

b. *B*

The *x*-coordinate is -2. The point lies on the *x*-axis, so its *y*-coordinate is 0. The ordered pair is (-2, 0).

The *x*-axis and *y*-axis separate the coordinate plane into four regions, called **quadrants**. The point at which the axes intersect is called the **origin**. The axes and points on the axes are not located in any of the quadrants.

				y			
	F	3-		-			
-	-	-	0	⊢			x
			-			A	-

			-	y				
-Qu	adra	ntl	I -	-0	Jua	dra	ntl	
	, - 	+/-			-1-	, -	-/-	
-			0					X
-Qu	adra	nt I	 -	-0	lua	drai	nt l	v -
F'	-, ·			,	-(-	-, -		

Graph four points that satisfy the equation y = 4 - x.

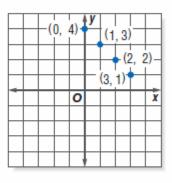
Make a table.

Choose four values for *x*.

Evaluate each value of *x* for 4 - x.

X	4 – <i>x</i>	y	(x , y)
0	4 - 0	4	(0, 4)
1	4 - 1	3	(1, 3)
2	4 – 2	2	(2, 2)
3	4 – 3	1	(3, 1)

Plot the points.



PRACTICE PROBLEMS

Graph 4 points that satisfy the equation.

1. y = 2x 2. 3x - y = 1 3. 5x + 2y = -4

TOPIC 2: EVALUATING ALGEBRAIC EXPRESSIONS

An expression is an algebraic expression if it contains sums and/or products of variables and numbers. To evaluate an algebraic expression, replace the variable or variables with known values, and then use the order of operations.

	PEMI 1 st - Parer 2 nd - Expo 3 rd - Multiplicat 4 th -Addition/5	ntheses onents tion/Division		
EXAMPLE Evaluate each expression.				
a. $x - 5 + y$ if $x = 15$ and x - 5 + y = 15 - 5 + (-5) + (-5) + (-7) x - 5 + y = 10 + (-7) Subtrational Subtratione Subtrational Subtration	-7) Substitute.		a^{2} if $a = -3$ and $a^{2} = 6(-3)(3)^{2}$ = 6(-3)(9) = (-18)(9) = -162	Substitute. $3^2 = 9$
EXAMPLE 2 Evaluate if $m = -2$, $n = -4$, and $\frac{2m + n}{v - 3}$	and $p = 5$.	b . $-3(m^2 - m^2)$	+2n	
$\frac{p-3}{\frac{2m+n}{p-3}} = \frac{2(-2) + (-4)}{5-3}$	Substitute.	$-3(m^2 -$	(-2) + 2 <i>n</i>) = -3[(-2)	$(2^{2} + 2(-4))$
$=\frac{-4-4}{5-3}$	Multiply.		= -3[4 +	(-8)]
$=\frac{-8}{2}$ or -4	Subtract.		= -3(-4)	or 12

PRACTICE PROBLEMS

Evaluate each expression if a= 2, b = -3, c = -1, and d = 4

4.
$$\frac{3b}{5a+2}$$
 5. $\frac{bd}{2c}$ 6. $\frac{2d-a}{b}$ 7. $5+d(3b-2d)$ 8. $-2(b^2-5c)$

TOPIC 3: SOLVING EQUATIONS

If the same number is added to or subtracted from each side of an equation, the resulting equation is true.

C	EXAMPLE	
6	Solve each equation.	
	a. $x - 7 = 16$	
	x - 7 = 16	Original equation
	x - 7 + 7 = 16 + 7	Add 7 to each side.
	x = 23	Simplify.
	b. $m + 12 = -5$	
	m + 12 = -5	Original equation
	m + 12 + (-12) = -5 + (-12)	Add – 12 to each side.
	m = -17	Simplify.
	c. $k + 31 = 10$	
	k + 31 = 10	Original equation
	k + 31 - 31 = 10 - 31	Subtract 31 from each side.
	k = -21	Simplify.

Solve each equation.
a.
$$4d = 36$$

 $4d = 36$
 $4d = 36$
 $\frac{4d}{4} = \frac{36}{4}$
 $x = 9$
b. $-\frac{t}{8} = -7$
 $-\frac{t}{8} = -7$
Original equation
 $-8\left(-\frac{t}{8}\right) = -8(-7)$
Multiply each side by -8.
 $t = 56$
Simplify.
c. $\frac{3}{5}x = -8$
 $x = -\frac{40}{3}$
Simplify.

To solve equations with more than one operation, often called *multi-step equations*, undo operations by working backward.

Solve each equation. a. 8q - 15 = 498q - 15 = 49**Original equation** 8q = 64Add 15 to each side. Divide each side by 8. q = 8**b.** 12y + 8 = 6y - 512y + 8 = 6y - 5**Original** equation 12y = 6y - 13 Subtract 8 from each side. 6y = -13Subtract 6y from each side. $y = -\frac{13}{6}$ Divide each side by 6. Solve 3(x - 5) = 13. 3(x-5) = 13 Original equation 3x - 15 = 13 Distributive Property 3x = 28 Add 15 to each side. $x = \frac{\overline{28}}{3}$ Divide each side by 3.

PRACTICE PROBLEMS

Solve each equation. Express final answer in fraction form.

9.
$$\frac{8}{5}a = -6$$
 10. $-\frac{p}{12} = 8$ 11. $5c - 7 = 8c - 4$ 12. $\frac{7}{4}x - 2 = -5x + 1$

13.
$$-3(d-7) = 6-5d$$
 14. $\frac{5}{x} + 4 = 12$ 15. $\frac{3}{x+2} = 4$ 16. $\frac{3}{2}x + 5 = \frac{2}{3}x - 10$

TOPIC 4: SOLVING INEQUALITIES

Statements with greater than (>), less than (<), greater than or equal to (\geq), or less than or equal to (\leq) are inequalities.

If any number is added or subtracted to each side of an inequality, the resulting inequality is true.

EXAMPLE

Solve each inequality. a. x - 17 > 12 x - 17 > 12 Original inequality x - 17 + 17 > 12 + 17 Add 17 to each side. x > 29 Simplify. The solution set is $\{x \mid x > 29\}$. b. $y + 11 \le 5$ $y + 11 \le 5$ Original inequality $y + 11 - 11 \le 5 - 11$ Subtract 11 from each side. $y \le -6$ Simplify. The solution set is $\{y \mid y \le -6\}$.

If each side of an inequality is multiplied or divided by a positive number, the resulting inequality is true.

Solve each ineq	uality.		
a. $\frac{t}{6} \ge 11$		b. 8p < 72	
$\frac{t}{6} \ge 11$	Original inequality	<mark>8p < 72</mark>	Original inequality
$(6)\frac{t}{6} \ge (6)11$	Multiply each side by 6.	$\frac{8p}{8} < \frac{72}{8}$	Divide each side by 8.
$t \ge 66$	Simplify.	<i>p</i> < 9	Simplify.
The solution	set is $\{t t \ge 66\}$.	The solu	tion set is $\{p p < 9\}$.

If each side of an inequality is multiplied or divided by the same negative number, the direction of the inequality symbol must be *reversed* so that the resulting inequality is true.

3 Solve each inequality. a. -5c > 30 -5c > 30 Original inequality $\frac{-5c}{-5} < \frac{30}{-5}$ Divide each side by -5. Change > to <. c < -6 Simplify. The solution set is $\{c|c < -6\}$.

b. $-\frac{d}{13} \le -4$ $-\frac{d}{13} \le -4$ Original inequality $(-13)\left(\frac{-d}{13}\right) \ge (-13)(-4)$ Multiply each side by -13. Change \le to \ge . Simplify. d > 52The solution set is $\{d | d \ge 52\}$. Solve each inequality. a. -6a + 13 < -7-6a + 13 < -7Original inequality -6a + 13 - 13 < -7 - 13 Subtract 13 from each side. -6a < -20Simplify. $\frac{-6a}{-6} > \frac{-20}{-6}$ Divide each side by -6. Change < to >. $a > \frac{10}{3}$ Simplify. The solution set is $\left\{a|a > \frac{10}{3}\right\}$. **b.** $4z + 7 \ge 8z - 1$ $4z + 7 \ge 8z - 1$ Original inequality $4z + 7 - 7 \ge 8z - 1 - 7$ Subtract 7 from each side. $4z \ge 8z - 8$ Simplify. $4z - 8z \ge 8z - 8 - 8z$ Subtract 8z from each side. -4z > -8Simplify. $\frac{-4z}{-4} \leq \frac{-8}{-4}$ Divide each side by -4. Change \geq to \leq . $z \leq 2$ Simplify.

The solution set is $\{z | z \leq 2\}$.

PRACTICE PROBLEMS

Solve each inequality.

$$17. -\frac{a}{8} < 5 18. -3n - 8 > 2n + 7 19. -\frac{4}{5}k - 17 \ge 11$$

20.
$$\frac{2}{3}x + 12 \le \frac{1}{4}x - 3$$
 21. $3(2x+6) - 3 < -2(x+5)$

TOPIC 5: GRAPHING EQUATIONS

EXAMPLE

Determine the *x*-intercept and *y*-intercept of 4x - 3y = 12. Then graph the equation.

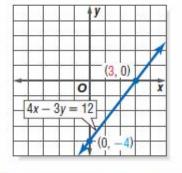
To find the *x*-intercept, let y = 0. 4x - 3y = 12 Original equation

4x - 3(0) = 12 Replace y with 0.

- 4x = 12 Simplify.
- x = 3 Divide each side by 4.

To find the y-intercept, let x = 0. 4x - 3y = 12 Original equation 4(0) - 3y = 12 Replace x with 0. -3y = 12 Divide each side by -3. y = -4 Simplify.

Put a point on the *x*-axis at 3 and a point on the *y*-axis at -4. Draw the line through the two points.



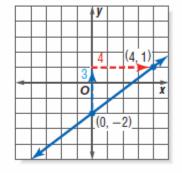
A linear equation of the form y = mx + b is in *slope-intercept* form, where *m* is the slope and *b* is the *y*-intercept.

$$\bigcirc Graph \ y = \frac{3}{4}x - 2.$$

Step 1 The *y*-intercept is
$$-2$$
. So, plot a point at $(0, -2)$.

Step 2 The slope is $\frac{3}{4}$. $\frac{115e}{run}$ From (0, -2), move up 3 units and right 4 units. Plot a point.

Step 3 Draw a line connecting the points.



PRACTICE PROBLEMS

Graph each equation using x- and y-intercepts.

22. -2x + 3y = 6 23. 3x - y = 3

Graph each equation using slope and y-intercept.

24.
$$y = x + 4$$
 25. $3x - 2y = 12$

Graph each equation using either method.

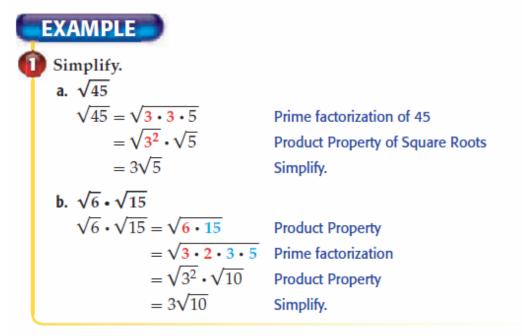
26.
$$y = \frac{2}{3}x - 3$$
 27. $-6x + y = 2$ 28. $3x + 4y = -12$

TOPIC 6: SQUARE ROOTS AND SIMPLIFYING RADICALS

A radical expression is an expression that contains a square root. The expression is in simplest form when the following three conditions have been met.

- No radicands have perfect square factors other than 1.
- No radicands contain fractions.
- No radicals appear in the denominator of a fraction.

The **Product Property** states that for two numbers *a* and $b \ge 0$, $\sqrt{ab} = \sqrt{a} \cdot \sqrt{b}$.



For radical expressions in which the exponent of the variable inside the radical is *even* and the resulting simplified exponent is *odd*, you must use absolute value to ensure nonnegative results.

The **Quotient Property** states that for any numbers *a* and *b*, where $a \ge 0$ and

$$b \ge 0, \sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}.$$
EXAMPLE
3 Simplify $\sqrt{\frac{25}{16}}$.
$$\sqrt{\frac{25}{16}} = \frac{\sqrt{25}}{\sqrt{16}}$$
Quotient Property
$$= \frac{5}{4}$$
Simplify.

Rationalizing the denominator of a radical expression is a method used to eliminate radicals from the denominator of a fraction. To rationalize the denominator, multiply the expression by a fraction equivalent to 1 such that the resulting denominator is a perfect square.

EXAMPLE			
G Simplify.		$\sqrt{13y}$	
a. $\frac{2}{\sqrt{3}}$		b. $\frac{\sqrt{13y}}{\sqrt{18}}$	
$\frac{2}{\sqrt{3}} = \frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$	Multiply by $\frac{\sqrt{3}}{\sqrt{3}}$.	$\frac{\sqrt{13y}}{\sqrt{18}} = \frac{\sqrt{13y}}{\sqrt{2 \cdot 3 \cdot 3}}$	Prime factorization
$=\frac{2\sqrt{3}}{3}$	Simplify.	$=\frac{\sqrt{13y}}{3\sqrt{2}}$	Product Property
		$=\frac{\sqrt{13y}}{3\sqrt{2}}\cdot\frac{\sqrt{2}}{\sqrt{2}}$	Multiply by $\frac{\sqrt{2}}{\sqrt{2}}$.
		$=\frac{\sqrt{26y}}{6}$	Product Property

Sometimes, conjugates are used to simplify radical expressions. Conjugates are binomials of the form $p\sqrt{q} + r\sqrt{s}$ and $p\sqrt{q} - r\sqrt{s}$.

PRACTICE PROBLEMS

 29. $\sqrt{32}$ 30. $\sqrt{75}$ 31. $\sqrt{147}$ 32. $\sqrt{50} \cdot \sqrt{10}$

 33. $4\sqrt{12} \cdot 2\sqrt{3}$ 34. $\sqrt{\frac{18}{36}}$ 35. $\frac{3}{\sqrt{48}}$ 36. $\frac{2\sqrt{5}}{\sqrt{24}}$

SIMPLIFY.

TOPIC 7: MULTIPLYING POLYNOMIALS

The **Product of Powers** rule states that for any number *a* and all integers *m* and *n*, $a^m \cdot a^n = a^{m+n}$.

EXAMPLE Simplify each expression. a. $(4p^5)(p^4)$ $(4p^5)(p^4) = (4)(1)(p^5 \cdot p^4)$ $= (4)(1)(p^5 + 4)$ $= 4p^9$ b. $(3yz^5)(-9y^2z^2) = (3)(-9)(y \cdot y^2)(z^5 \cdot z^2)$ $= -27(y^{1+2})(z^{5+2})$ $= -27y^3z^7$

2 Simplify $3x^3(-4x^2 + x - 5)$. $3x^3(-4x^2 + x - 5) = 3x^3(-4x^2) + 3x^3(x) - 3x^3(5)$ Distributive Property $= -12x^5 + 3x^4 - 15x^3$ Multiply.

To find the power of a power, multiply the exponents. This is called the **Power of a Power** rule.

Simplify each expression.
a.
$$(-3x^2y^4)^3$$

 $(-3x^2y^4)^3 = (-3)^3(x^2)^3(y^4)^3$
 $= -27x^6y^{12}$
b. $(xy)^3(-2x^4)^2$
 $(xy)^3(-2x^4)^2 = x^3y^3(-2)^2(x^4)^2$
 $= x^3y^3(4)x^8$
 $= 4x^3 \cdot x^8 \cdot y^3$
 $= 4x^{11}y^3$

To multiply two binomials, find the sum of the products of

.

- F the First terms,
- O the Outer terms,
- I the Inner terms, and
- L the Last terms.

Find
$$(2x - 3)(x + 1)$$
.
F O I L
 $(2x - 3)(x + 1) = (2x)(x) + (2x)(1) + (-3)(x) + (-3)(1)$ FOIL method
 $= 2x^2 + 2x - 3x - 3$ Multiply.
 $= 2x^2 - x - 3$ Combine like terms.

Find
$$(3x - 2)(2x^2 + 7x - 4)$$
.
 $(3x - 2)(2x^2 + 7x - 4) = 3x(2x^2 + 7x - 4) - 2(2x^2 + 7x - 4)$ Distributive Property
 $= 6x^3 + 21x^2 - 12x - 4x^2 - 14x + 8$ Distributive Property
 $= 6x^3 + 17x^2 - 26x + 8$ Combine like terms.
Three special products are $(a + b)^2 = a^2 + 2ab + b^2$,
 $(a - b)^2 = a^2 - 2ab + b^2$, and
 $(a + b)(a - b) = a^2 - b^2$.
Find each product.
a. $(2x - z)^2$
 $(a - b)^2 = a^2 - 2ab + b^2$ Square of a difference
 $(2x - z)^2 = (2x)^2 - 2(2x)(z) + (z)^2$ $a = 2x$ and $b = z$
 $= 4x^2 - 4xz + z^2$ Simplify.

b. (3x + 7)(3x - 7) $(a + b)(a - b) = a^2 - b^2$ Product of sum and difference $(3x + 7)(3x - 7) = (3x)^2 - (7)^2$ a = 3x and b = 7 $= 9x^2 - 49$ Simplify.

PRACTICE PROBLEMS

Find each product.

37.
$$\left(\frac{8}{5}x^3y\right)(4x^3y^2)$$
 38. $4m^2(-2m^2+7m-5)$ 39. $(-5w^3x^2)^2(2w^5)^3$

40.
$$(a+3)(a-6)$$
 41. $(5d+3)(2d-4)$ 42. $(4a-3)(4a+3)$

43.
$$(x-5)^2$$
 44. $(3x+2)^2$ 45. $(x-2)(x^2+3x-7)$

TOPIC 8: FACTORING TO SOLVE EQUATIONS

Some polynomials can be factored using the Distributive Property.

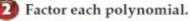
EXAMPLE

Factor $5t^2 + 15t$.

Find the greatest common factor (GCF) of $5t^2$ and 15t. $5t^2 = 5 \cdot t \cdot t$, $15t = 3 \cdot 5 \cdot t$ GCF: $5 \cdot t$ or 5t $5t^2 + 15t = 5t(t) + 5t(3)$ Rewrite each term using the GCF. = 5t(t + 3) Distributive Property

To factor polynomials of the form $x^2 + bx + c$, find two integers *m* and *n* so that mn = c and m + n = b. Then write $x^2 + bx + c$ using the pattern (x + m)(x + n).

To factor polynomials of the form $ax^2 + bx + c$, find two integers *m* and *n* with a product equal to *ac* and with a sum equal to *b*. Write $ax^2 + bx + c$ using the pattern $ax^2 + mx + nx + c$. Then factor by grouping.



a.
$$x^2 - 8x + 15$$

In this equation, b is -8 and c is 15. This means that m + n is negative and mn is positive. So m and n must both be negative.

$$x^{2} - 8x + 15 = (x + m)(x + n)$$

= (x - 3)(x - 5)

b. $5x^2 - 19x - 4$ In this equation, *a* is 5, *b* is -19, and *c* is -4. Find two numbers with a product of -20 and with a sum of -19. $5x^2 - 19x - 4 = 5x^2 + mx + nx - 4$ $= 5x^2 + x + (-20)x - 4$ $= (5x^2 + x) - (20x + 4)$ = x(5x + 1) - 4(5x + 1)= (x - 4)(5x + 1) b is negative and c is positive.

Factors of 15	Sum of Factors
-1, -15	-16
-3, -5	-8

The correct factors are -3 and -5. Write the pattern; m = -3 and n = -5

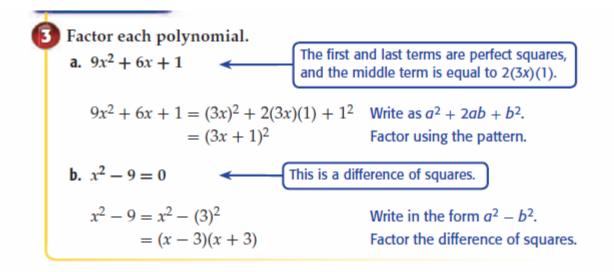
b is negative and c is negative.

Factors of -20	Sum of Factors
-2, 10	8
2, -10	-8
- 1, 20	19
1, -20	- 19

Factor the GCF from each group. Distributive Property

Here are some special products.

Perfect Square Trinomials $a^2 + 2ab + b^2 = (a + b)(a + b)$ $a^2 - 2ab + b^2 = (a - b)(a - b)$ $= (a + b)^2$ Difference of Squares $a^2 - b^2 = (a + b)(a - b)$ $= (a - b)^2$



The binomial x - a is a factor of the polynomial f(x) if and only if f(a) = 0. Since 0 times any number is equal to zero, this implies that we can use factoring to solve equations.

Solve $x^2 - 5x + 4 = 0$ by factoring. $x^2 - 5x + 4 = 0$ Original equation (x - 1)(x - 4) = 0 Factor the polynomial. x - 1 = 0 or x - 4 = 0 Zero Product Property x = 1 x = 4

PRACTICE PROBLEMS

Factor each polynomial.

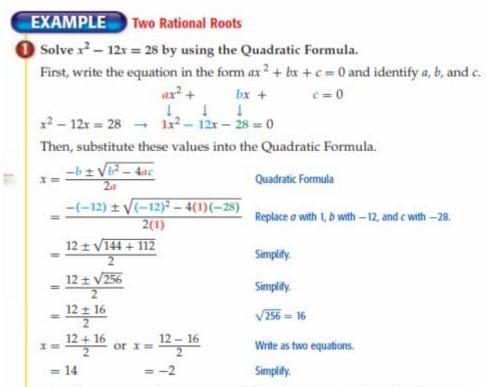
46. $w^2 + 4w$ 47. $n^2 + 8n + 15$ 48. $x^2 - 9x + 18$ 49. $3y^2 + 2y - 4$

Solve each equation by factoring.

50.
$$10r^2 - 35r = 0$$
 51. $x^2 + 13x + 36 = 0$ 52. $b^2 - 15 = 2b$

$$53. - 2y^2 = -5y - 12 \qquad 54. \quad -11 - b = -b^2 + 5 - b$$

TOPIC 9: QUADRATIC FORMULA



The solutions are -2 and 14. Check by substituting each of these values into the original equation.

PRACTICE PROBLEMS

Solve each equation using Quadratic Formula. Express answers in simplified radical form.

55. $x^2 + 6x = 16$ 56. $2x^2 + 25x + 33 = 0$

57.
$$3x^2 + 5x + 1 = 0$$
 58. $x^2 - 8x = -9$

TOPIC 10: SYSTEMS OF EQUATIONS

Substitution One algebraic method is the **substitution method**. Using this method, one equation is solved for one variable in terms of the other. Then, this expression is substituted for the variable in the other equation.

EXAMPLE Solve by Using Substitution

Use substitution to solve the system of equations. x + 2y = 8 $\frac{1}{2}x - y = 18$ Solve the first equation for x in terms of y. x + 2y = 8 First equation x = 8 - 2y Subtract 2y from each side. Substitute 8 - 2y for x in the second equation and solve for y. $\frac{1}{2}x - y = 18$ Second equation $\frac{1}{2}(8 - 2y) - y = 18$ Substitute 8 - 2y for x. 4 - y - y = 18 Distributive Property -2y = 14 Subtract 4 from each side. y = -7 Divide each side by -2.

Now, substitute the value for *y* in either original equation and solve for *x*.

x + 2y = 8 First equation x + 2(-7) = 8 Replace y with -7. x - 14 = 8 Simplify. x = 22The colution of the system is (22)

The solution of the system is (22, -7).

PRACTICE PROBLEMS

Solve by Substitution.

59.	2x - 3y = 2	60. $7y = 26 + 11x$
	x + 2y = 15	x - 3y = 0

Elimination Another algebraic method is the **elimination method**. Using this method, you eliminate one of the variables by adding or subtracting the equations. When you add two true equations, the result is a new equation that is also true.

EXAMPLE Solve by Using Elimination

Use the elimination method to solve the system of equations.

4a + 2b = 15

2a + 2b = 7

1

In each equation, the coefficient of *b* is 2. If one equation is subtracted from the other, the variable *b* will be eliminated.

4a + 2b = 15

(-) 2a + 2b = 7

2a = 8 Subtract the equations.

a = 4 Divide each side by 2.

Now find *b* by substituting 4 for *a* in either original equation.

2a + 2b = 7 Second equation 2(4) + 2b = 7 Replace *a* with 4. 8 + 2b = 7 Multiply. 2b = -1 Subtract 8 from each side. $b = -\frac{1}{2}$ Divide each side by 2. The solution is $\left(4, -\frac{1}{2}\right)$.

PRACTICE PROBLEMS

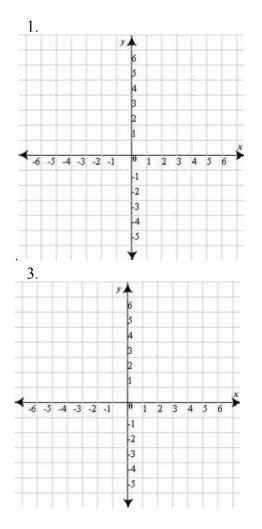
Solve each system of equations using elimination.

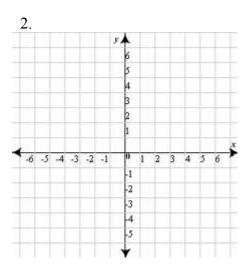
61. 3x + 4y = 14 4x + 5y = 1762. 2x - 4y = 284x = 17 - 5y

Honors Geometry Summer Packet Answer Sheet

Name:_____ Teacher:_____

TOPIC 1: GRAPHING ORDERED PAIRS





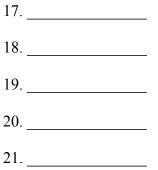
TOPIC 2: EVALUATING ALGEBRAIC EXPRESSIONS

- 4.
- 5. _____
- 6. _____
- 7. _____
- 8. _____

TOPIC 3: SOLVING EQUATIONS

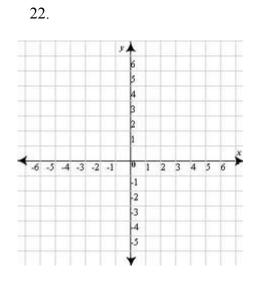


TOPIC 4: SOLVING INEQUALITIES

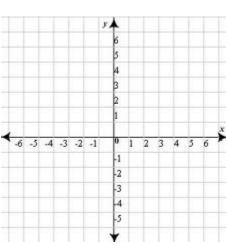


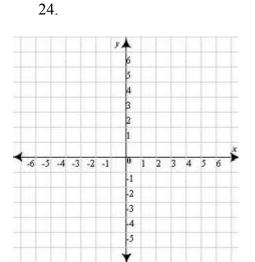
TOPIC 5: GRAPHING EQUATIONS

16._____

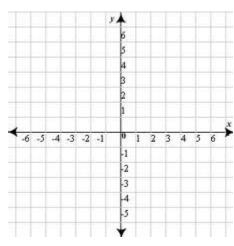


23.

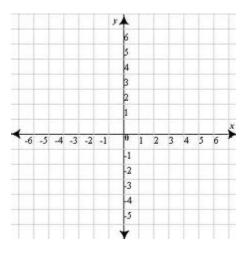




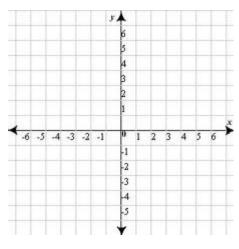
25.

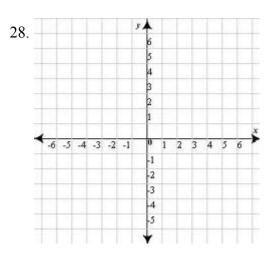






27.





TOPIC 6: SQUARE ROOTS AND SIMPLIFYING RADICALS

- 29._____
- 30._____
- 31._____
- 32._____
- 33. _____
- 34._____
- 35. _____
- 36. _____

TOPIC 7: MULTIPLYING POLYNOMIALS

- 37._____
- 38._____
- •
- 39._____
- 40._____
- 41._____
- 42._____
- 43._____
- 44. _____
- 45._____

TOPIC 8: FACTORING TO SOLVE EQUATIONS

- 46._____
- 47._____
- 48._____
- 49._____
- 50. _____
- 51. _____
- ---
- 52._____
- 53._____
- 54. _____

TOPIC 9: QUADRATIC FORMULA

- 55._____
- 56._____
- 57.____
- 58._____

TOPIC 10: SYSTEMS OF EQUATIONS

- 59.
- 60.
- 61._____
- 62._____