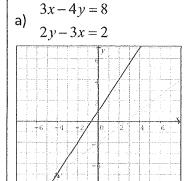
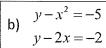
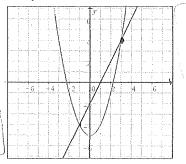
KEY

Name: KEY

1. Solve the following by graphing.



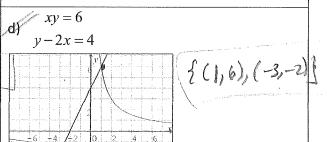




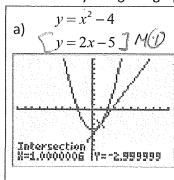
c)
$$y+5=(x-2)^2$$

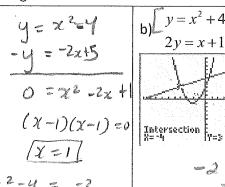
 $y-5=-(x-4)^2$

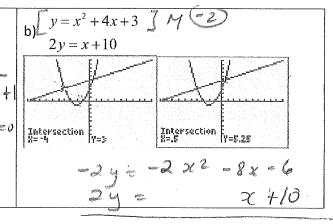




2. Solve by using the graphing calculator. eliminatum







Name Jacob Resulto

Student Achievement Rubric

Term: 2

WORK HABITS

	Good (G)	Satisfactory (S)	Needs Improvement (N)
RESPONSIBILITY			
Attendance	Always attends	Usually attends class	Frequently absent
Punctuality	Always on time 🗸	Usually on Time	Frequently late
Prepared materials	Always prepared for class	Usually prepared for class	Unprepared for class
	(ex. has pencil, paper) ✓	/	
Task Completion	Work is complete	Work is usually complete	Work often incomplete
Integrity	Does own work; does not /	Sometimes copies and/or	Often copies and/or
	abuse break privileges	abuses bathroom/water	abuses bathroom/water
	·	breaks	breaks
COOPERATION		/	
Participation	Always participates/or	Usually participates v	Seldom participates and
	makes a positive	and/or makes a positive	rarely contributes to
	contribution to the class	contribution in class	class
Follows Instructions	Listens and follows	Usually listens and follows	Rarely listens and follows
	teacher instructions	teacher instructions //	teacher instructions
Respects Diversity	Interacts with all	Usually interacts with $\sqrt{}$	May avoid working with
	members of the class in a	most members of the	others. Often disrupts
	positive manner	class in a positive way	others' learning
INDEPENDENCE			
Focus	Works without direct	Usually works without 🗸	Seldom works without
	supervision; on task	direct supervision; on task /	direct supervision
Responsibility for	Seeks extra help when	Usually seeks help when √	Does not seek help when
Work	needed	needed	needed.

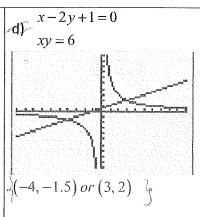
Two Stars and a Wish: (Two things you are proud of this term and one thing to Improve)

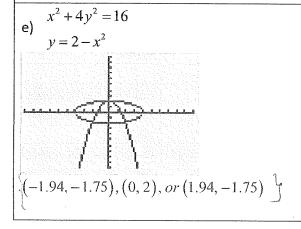
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Wish:		

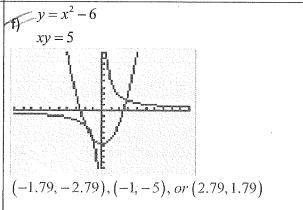
$$x^{2} + y^{2} = 9$$

$$y = x^{2} - 3$$

$$\{(-2.34, 2), (0, -3), or (2.34, 2)\}$$







3. Solve algebraically.

a)
$$\frac{2x - y = 3}{3y + 2x = 15}$$
 $\Rightarrow \frac{2x - 3 = y}{3y + 2x = 15}$ $\Rightarrow \frac{3y + 2x = 15}{3(2x - 3)} \Rightarrow \frac{2x - 3 = y}{3y + 2x = 15}$ b) $\frac{x - 2y = 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x + 2y = -3.5}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 8}$ $\Rightarrow \frac{x = 2(-3.5) + 12}{3x - 2y = -10}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 12}$ $\Rightarrow \frac{x = 2y + 12}{2y + 3x = 12}$

continued on nort page

Name: Ajala

Student Achievement Rubric

Term: 3

WORK HABITS

	Good (G)	Satisfactory (S)	Needs Improvement (N)
RESPONSIBILITY			
Attendance	Always attends /	Usually attends class	Frequently absent
Punctuality	Always on time	Usually on Time	Frequently late
Prepared materials	Always prepared for class (ex. has pencil, paper)	Usually prepared for class	Unprepared for class
Task Completion	Work is complete	Work is usually complete	Work often incomplete
Integrity	Does own work; does not	Sometimes copies and/or	Often copies and/or
•	abuse break privileges	abuses bathroom/water	abuses bathroom/water
		breaks	breaks
COOPERATION		/	
Participation	Always participates/or	Usually participates	Seldom participates and
	makes a positive	and/or makes a positive	rarely contributes to
	contribution to the class	contribution in class	class
Follows Instructions	Listens and follows	Usually listens and follows	Rarely listens and follows
	teacher instructions	teacher instructions	teacher instructions
Respects Diversity	Interacts with all	Usually interacts with	May avoid working with
	members of the class in a	most members of the	others. Often disrupts
	positive manner	class in a positive way	others' learning
INDEPENDENCE			<u> </u>
Focus	Works without direct	Usually works without	Seldom works without
	supervision; on task	direct supervision; on task	direct supervision
Responsibility for	Seeks extra help when	Usually seeks help when	Does not seek help when
Work	needed	needed /	needed.

Star: That I hand in all my work on or days before the dile dette.

Star: if the teacher explains something i don't get, ink for send to explain to to me.

Wish: to raise the dile days more often.

$$\begin{vmatrix} y = -\frac{35}{9} \text{ or } y = -4 & x = -3(-4) - 15 \\ x = 12 - 15 = -3 & x = \frac{4}{3} \text{ or } x = -2 & y = 3 + 5 = 8 \\ \text{Solutions:} \left[-\frac{10}{3}, -\frac{35}{3} \right] \text{ or } (-3, 4) \right]$$

$$= 0 \begin{vmatrix} x^2 + y^2 = 13 \\ 2x + 3y = 13 \end{vmatrix} \rightarrow x = \frac{13 - 3y}{2}$$

$$= 0 \begin{vmatrix} \frac{13 - 3y}{2} \end{vmatrix}^2 + y^2 = 13 \Rightarrow x = \frac{13 - 3y}{2}$$

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$$= 0 \begin{vmatrix} \frac{13 - 3y}{2} \end{vmatrix}^2 + y^2 = 13 \Rightarrow x = \frac{6}{2}$$

$$= 0 \begin{vmatrix} \frac{13 - 3y}{2} \end{vmatrix}^2 + y^2 = 13 \Rightarrow x = \frac{6}{2}$$

$$= 0 \begin{vmatrix} \frac{13 - 3y}{2} \end{vmatrix}^2 + y^2 = 13 \Rightarrow x = \frac{6}{2}$$

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$$= 0 \begin{vmatrix} \frac{13 - 3y}{2} \end{vmatrix}^2 + y^2 = 13 \Rightarrow x = \frac{13 - 3(3)}{2} \Rightarrow x = \frac{13$$

Name Daniel Moges

Student Achievement Rubric

Term:	i

WORK HABITS

	Good (G)	Satisfactory (S)	Needs Improvement (N)
RESPONSIBILITY			
Attendance	(Always attends	Usually attends class	Frequently absent
Punctuality	Always on time	Usually on Time	Frequently late
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Participation	Always participates/or makes a positive contribution to the class	Usually participates and/or makes a positive contribution in class	Seldom participates and rarely contributes to class
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INDEPENDENCE			,
Focus	Works without direct supervision; on task	Usually works without direct supervision; on task	Seldom works without direct supervision
Responsibility for Work	Seeks extra help when needed	Usually seeks help when needed	Does not seek help when needed.

	Two Stars and a Wish: (Two things you are proud of this term and one thing to Improve)
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4. Three footballs and one soccer ball cost \$155. Two footballs and three soccer balls cost \$220. Determine the cost of one football and the cost of one soccer ball.

Let F be the cost of a football

And C be the cost of a soccer ball

$$3F+1C=155$$

 $2F+3C=220$ $\Rightarrow C=155-3F$
 $2F+3(155-3F)=220$ Substitution
 $2F+465-9F=220$ $C=155-3(35)$
 $-7F=-245$ $C=$50$
 $F=$35$

The cost of a football is \$35 and \$50 for a soccer ball.

5. For the athletic banquet, one adult ticket cost \$15.00 and one student ticket costs \$10.00. One hundred forty tickets were sold. The total receipts were \$1600. How many student tickets were sold?

Let A be the number of adult tickets

And T be the number of student tickets

$$A+T=140$$
 $15A+10T=1600$
 $T=140-A$
 $T=100$
 $T=100$

100 student tickets were sold to the athletic banquet.

6. A crate of 36 grapefruit has a total mass of 4 kg. When 12 grapefruit are removed, the total mass is 3 kg. Determine the mass of the crate and the mass of one grapefruit.

Let C be the mass of the crate

And G be the mass of the grapefruit.

5.
$$1\frac{1}{3} \times 2\frac{1}{5} =$$

.

6.
$$3\frac{4}{5} \times 2\frac{1}{2} =$$

7. DIVIDE. Express your answer in SIMPLIFIED terms.

a)
$$\frac{6}{11} \div 3 =$$

b)
$$\frac{15}{16} \div 5 =$$

c)
$$6 \div \frac{18}{7} =$$

d)
$$4 \div \frac{12}{15} =$$

8.
$$4\frac{1}{2} \div 1\frac{1}{6} =$$

.

9.
$$5\frac{1}{4} \div 4\frac{1}{2} =$$

$$C+36G = 4$$

$$C+24G = 3$$

$$C=4-36G$$

$$C=3-24G$$

$$1=12G$$

$$C=3-24\left(\frac{1}{12}\right)$$

$$C=1$$

The crate's mass is 1 kg and each grapefruit is 831/3 g.

Jennifer invested \$500, part at 7% per annum and the rest at 10% per annum. After one year, the total interest earned was \$44. How much did Jennifer invest at each rate?

Let A be the amount invested at 7% And B be the amount invested at 10%

$$A+B=500$$

 $0.07A+0.1B=44$
 $0.07A+0.1(500-A)=44$
 $0.07A+50-0.1A=44$ $B=500-200$
 $-0.03A=-6$ $B=$300$
 $A=$200$

Jennifer invested \$200 at 7% and \$300 at 10%.

Math 9	Date: _	
Section 6.1 and 6.2 – Solving Equations Involving Fractions		Page 3 of 3

Chapter 9 Review

Period: _____

Name: _

Date:

1. Solve the following inequalities. In 1 variable:

a)
$$x^2 - 2x - 8 \ge 0$$

 $x^2 - 2x - 8 = 0$
 $(x+2)(x-4) = 0$

$$x = -2 \text{ or } x = 4(R \text{ so ts})$$

Solution : $x \le -2$ or $x \ge 4$

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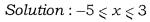
c)
$$15 - x^2 \ge 2x$$

 $x^2 + 2x - 15 \le 0$
 $x^2 + 2x - 15 = 0$

$$x^2 + 2x - 15 = 0$$

$$(x+5)(x-3)=0$$

x = -5 or x = 3





b)
$$x(x-5) < 14$$

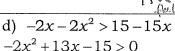
 $x^2 - 5x - 14 = 0$

$$x^2 - 5x - 14 = 0$$

$$(x+2)(x-7) = 0$$

$$x = -2 \text{ or } x = 7 - |0| \cdot |0| \cdot$$

Solution: -2 < x < 7

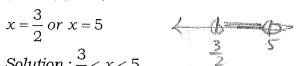


$$2x^2 - 13x + 15 < 0$$

$$(2x-3)(x-5)=0$$

$$x = \frac{3}{2} \text{ or } x = 5$$

Solution: $\frac{3}{2} < x < 5$



10(10-5) < 14

10187814

e) $(2x-3)^2 \ge 3x+1$

 $4x^2 - 12x + 9 \ge 3x + 1$

 $4x^2 - 15x + 8 = 0$

$$x = \frac{15 \pm \sqrt{(-15)^2 - 4(4)(8)}}{2(4)}$$

x = 0.644 or x = 3.106

Solution : x ≤ 0.644 *or* x ≥ 3.106

f) $5x^2 + 3x - 18 > (x+1)(2x-3)$

 $5x^2 + 3x - 18 > 2x^2 - x - 3$

 $3x^2 + 4x - 15 > 0$

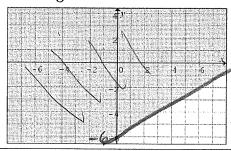
(3x-5)(x+3)=0

 $x = \frac{5}{3}$ or x = -3

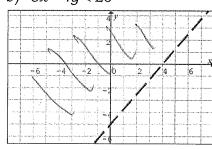
Solution: x < -3 or $x > \frac{5}{3}$

2. Graph the following inequalities.



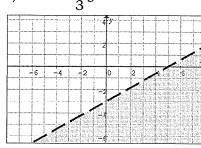


b) 5x - 4y < 20

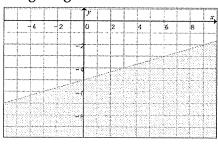


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c)
$$0.4x - \frac{2}{3}y > 2$$

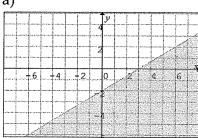


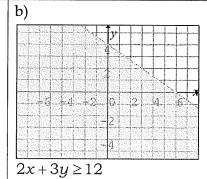
d)
$$\frac{1}{5}x - \frac{3}{5}y \ge 3$$



3. Write an inequality to describe each graph.

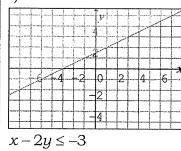




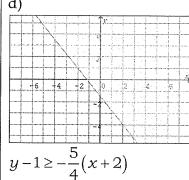


$$2x - 3y \ge 6$$



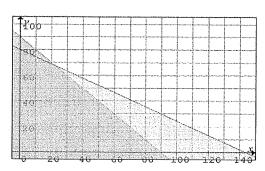


d)



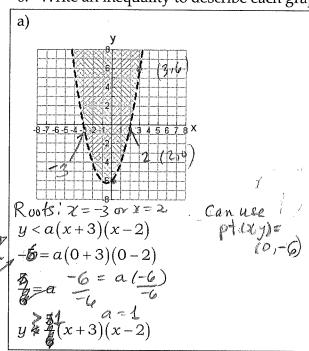
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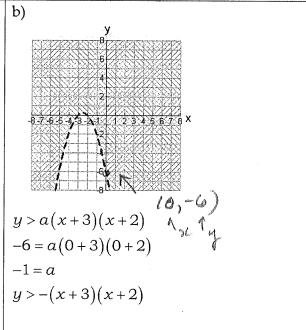
5. Jonny Orchard has 90 hectares of land to produce apples and peaches. It costs him \$250 per hectares to plant *x* hectares of apples, and \$450 per hectares to plant *y* hectares of peaches. If no more than \$36 000 is available for planting, Write a system of inequalities to describe the situation and draw a graph to show up to how much Jonny can spend.



$$x + y \le 90$$
$$250x + 450y \le 36000$$

6. Write an inequality to describe each graph.

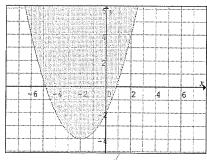




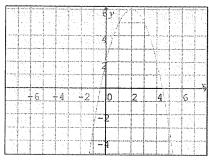
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7. Graph the following inequalities.

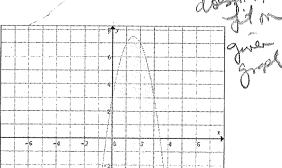
a)
$$y \ge \frac{1}{2}(x+2)^2 - 4$$



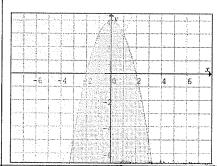
b)
$$y \ge -x^2 + 4x + 2$$



c)
$$y \le -2x^2 + 6x + 3$$

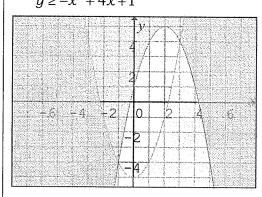


$$d) \quad y \le 4 - x^2 \\ y \ge 2x + 1$$



e)
$$y < x^2 - 5$$

 $y \ge -x^2 + 4x + 1$



$$y \ge x^2 - 3x - 4$$

f)
$$y < \frac{1}{2}x^2 - \frac{3}{2}x$$

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