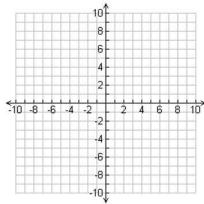
## 2024 Honoris Algebra 2 Symmer Packet

Name:		Score	:	/ 40
from Algebra 1. If you do	not remember hov	v to solve a proble	em, it is your resp	ultiple choice. This is all review consibility to do some research gebra 2 with little time for
first full day of school. O	ver the course of th	e first few weeks o	of the beginning o	eady to be checked during the of the school year, the packet ade of the new school year.
Below are some helpful rhttp://www.purplemathhttps://www.khanacadhttps://www.mathway.http://www.sosmath.cohttps://photomath.net/http://www.livemath.cohttps://sites.google.coh	n.com/modules/indemy.org/math/alg com/Algebra om/ en/ om/	dex.htm jebra l	study-math	
MULTIPLE CHOICE: Write	e the letter of the co	rrect choice in the	blank.	
a.	the following inequa 2x - 4y > 4 x + y < 8	c.	aphed using a solid $5x + 2y \ge 10$ $7x - 9y \ne 4$	d line?
a.	the following is corre $x \ge -4$ x < 4	C.	solved for $x$ ? x > 4 $x \le -4$	
	conjugates are mul true			of two squares.
a.	the following quadra $3x^2 + x + 5$ $x^2 + 12 + 5x$	C.	itten in standard for $6x + 2x^2 + 32$ $7 + 4x + x^2$	orm?
a.	ne constant in the qu 5 –6	adratic trinomial 5: c. d.	6	
6. In the radia.		, what is the index c. d.	2	

7. Which of the a. b.		ical with $4\sqrt{8}$ ?	c. $2\sqrt[3]{8}$ d. $12\sqrt{8}$
a	ne following is the root of 3 Irrational	of <sup>3</sup> √−27 ? c. −3 d. No	
a	the following is the conjuture $2x + \sqrt{5}$ $5 + \sqrt{2x}$	gate of $5 - \sqrt{2x}$ ?  c. $\sqrt{2x} - 5$ d. $\sqrt{5} - 2x$	
10. In the rad a. b. SHORT ANSWER: Write each	4	c. 2 d. 25	and?
	11. Slope-Inter	cept Form	
	12. Standard F	orm for Quadratic	Equations.
	13. Quadratic I	Formula	
	14. Slope Form	nula	
	15. Point-Slope	e Form	
INEQUALITY SOLVING: Sol	,	rite the answer in	the blank provided.
	16. $2(x-5) \ge 4(x+3)$		

**GRAPHING INEQUALITIES:** Graph the solutions to the inequality.

17. 
$$3x - 2y > -2$$



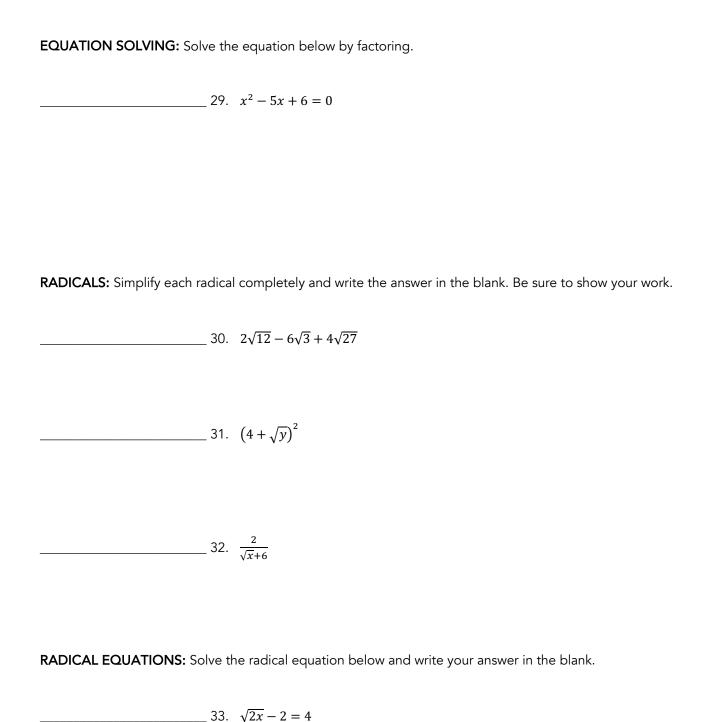
**SOLUTION VERIFICATION:** If the ordered pair is a solution to the system, write *solution* in the blank. If it is not a solution, write *not a solution*.

**SOLVING SYSTEMS OF EQUATIONS:** Solve the system using either substitution or elimination. Show all your work and write the answer in the blank.

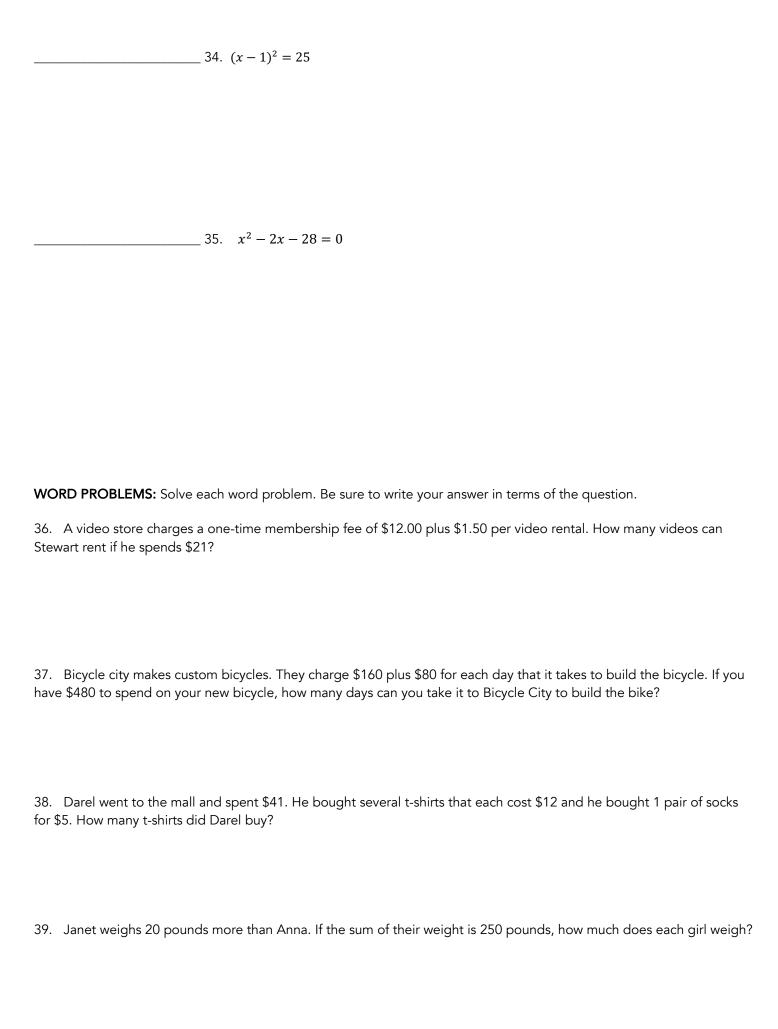
$$20. -7x + 2y = 18$$
$$6x + 6y = 0$$

MULTIPLYING POLYNOMIALS:	Multiply the polynomial below and write the answer in the blank.
21.	$(x-2)(3x^2+2x-1)$
22.	$(x+3)^2$
DIVIDING POLYNOMIALS: Divid	de the polynomials below and write your answer in the blank.
23.	$\frac{14x^4 + 4x^3 - 2x^2}{2x}$
24.	$(x^2 + 11x + 30) \div (x + 5)$
	omial below and write your answer in the blank. ference of Squares, and AC Methods)
25.	$4ab^2 - 24a^2b$
26.	$4x^2 - 11x - 3$
27.	$9x^2 - 4y^2$

 $28. \quad x^2 - 11x + 18$ 



**QUADRATIC EQUATIONS:** Solve each quadratic equation.



40. The school lunch prices are changing next year. The cost of a hot lunch will increase by \$0.45 from the current price. If next year's price is \$2.60, what did a hot lunch cost this year?					