Algebra 2 Honors- Week 8 Homework					
Monday- Factoring Trinomials Assignment © 2014 Kuta Software LLC. All rights reserved. Find the factors of this polynomial graphically.	Date	_ Period			
1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	2)				
3) $a^2 + 6a - 16$ 5) $x^2 + 6x + 5$ 7) $5m^2 + 8m + 3$ 9) $5p^2 - 9p - 18$ 11) $8x^2 - 41x + 5$	4) $x^2 - 6x - 16$ 6) $a^2 - 16a + 60$ 8) $3b^2 - 11b - 70$ 10) $10x^2 - x - 24$ 12) $9n^2 - 21n + 10$				

Name: _____ Date: _____ Block: _____

13) Compare and contrast each method of factoring trinomials.

Tuesday-

College Algebra	N	ame	ID: 1
Diff. of Squares and Sum or © 2014 Kuta Software LLC. All rights reserve		Date	Period
Factor each completely. Write Prin		xpression.	
1) $4k^2 + 9$	2) $x^2 - 2$	15	
3) $64u^2 + 9v^2$	4) $25x^2$	$-36y^2$	
5) $49x^4 - 4y^4$	6) 49a ⁴	- 144b ⁴	
7) $a^4 - 25b^4$	8) $25x^6$	- 16y ⁶	
9) $x^3 - 64$	10) 27 -	a ³	
11) $x^3 - 8$	12) 8+2	27a ³	
13) $216m^6 - 125n^6$	14) 27x ⁶	- 343 y ⁶	
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15) Desribe how you know whether a polynomial is a difference of cubes, or a sum or difference of squares.

16) Why can't we factor a sum of squares?

Wednesday- Quiz! No homework, catch up from previous week if needed!

Thursday-Factoring Completely Assignment

Factor completely.			
1. $b^4 + 4b^2 + 4$	2. $2x^2 - 14x + 24$	3. $4a^6 + 4$	4. $24m^4 + 10m^3 - 4m^2$
$5.4z^4 - 7x^2 - 15$	6. $x^3 - 3x^2 - 4x + 12$	7. $h^4 - 5h^2 - 1$	8. $w^8 - 1$
9. $(y-3)^2 - 4$	10. $(x+5)^2 + 7(x+5) + 6$		

Date:

Block:

Friday-Modeling Equations and Functions with Factoring Assignment

Solve each problem.

Name:

$1.b^2 + 7b + 6 = 0$	2. $x^2 - 16 = 0$	$3.2y^2 - 6 = y$	4. $m^2 = 25$
5. $t^3 - t^2 = 0$	6. $(p-6)^2 = p$	$7. m^3 + 6m^2 = 27m$	$8. d^4 - 2d^2 + 1 = 0$

9. The width of a rectangle is 10 less than its length.

a) Write a function A(x) that represents the area give length x.

b) Find the area of the rectangle if it has a length of 15 inches.

c) Find the length and width if the area is 24 inches².

10. A ball is shot straight up from a height of 112 feet and at a rate of 96 feet per second.

a) Write a function H(t) that represents the height at t seconds.

b) Find the height of the ball at 2 seconds.

c) When will the ball hit the ground?