Today we started with reviewing Factoring concepts. We then learned about a factoring method called difference of squares. We then completed practice over both topics and the homework was to complete any practice problems that were not completed. We will review them today.

Factoring Quadratic Expressions Review Date Period Factor each completely. 1) $x^2 + 12x + 20$ 20 x+10) (x+3) (x+ 10) (x+ 2) 4) $4m^2 + 12m - 72$ 4(m2+3m-18) 4(m+6)(m-3) 6) $2n^2 + n - 6$ 5a-6)(a+1) (2n-3)(n+2)7) $2b^2 + 11b + 5$ 8) $3r^2 - 14r + 15$ (3r-5)(r-9) (20+1)(6+5) 9) $24x^2 + 124x + 112$ 10) $4k^2 - k - 5$ (4K-5) (K+1) 4(6x2+31x+28) 4(6x + 7)(x + 4)12) $12v^2 + 58v + 56$ 3(6x2-7x+2) 2(6++29+28) 2(3v+4)(2v+7) 3 (3x -2)(2x-1) 13) $6m^2 - 5m - 21$ 14) $8x^2 - 62x + 84$ 2(4x2-31x+42) (3m-7)(2m +3) 2(4x -7)(x-6)

	factoring Difference of Squares		
(=)=4	1. pegree must be even χ^2 χ^4 χ^5 2. Binomial of subtracted terms 3. Both terms must be perfect source.		
3=9	3. Both terms must be perfect square.		
4=16			
e=36 t=49 After checking for GCF 83-64 Store of the success			
83-64 93= 81	1. Take square root of first term. put in both (Ta) (Ja)		
10 = 100 11 = 121			
D=14	3. make one + and make one -		
19-19	(ta+vc)(va-vc)		

1. $x^2 - 16$ (x+4)(x-4)

2. $x^2 - 49$ (X+7)(X-7)

3. $4x^2 - 25$ (2x+5)(2x-5)

4. $36x^2 - 1$ (GX+1)(GX-1)

5. $75x^2 - 3$ 3(25x2-1) 3(5x+1)(5x-1)6. $125x^2 - 45$ 5(25x2-9) 5(5x+3)(5x-3)7. $100x^2 \cdot 16$ 4(25x2-4) 4(5x+2)(5x-2)8. $36x^2 - 400$ 4(9x2-100) 4(3x410) (3x-10)

Algebra 2	Name	ID: 1
Factoring HW: Quadratics F	Review & Difference of Squares	Date
Factor each completely.		
1) $v^2 - 7v + 6$	2) $p^2 + 5p + 6$	
		.7
3) $2r^2 - 11r + 5$	4) $5m^2 - 8m + 3$	
5) $3b^2 - 10b + 7$	6) $2x^2 + 3x + 1$	
G		*
		• **
7) $4x^2 - 11x - 20$	8) $24x^2 + 28x - 80$	
		-
9) $4n^2 - 11n + 7$	10) $6v^2 - 23v + 20$	
	-1-	

11)
$$x^2 - 16$$

12) $4n^2 - 25$
(3) $x^2 - 1$
14) $2x^2 - 18$
15) $100k^2 - 16$
16) $9x^2 - 1$
17) $4b^2 - 100$
18) $32k^2 - 50$
19) $k^2 - 9$
20) $18n^2 - 2$

-2-