9.3 Factor Trinomials by Grouping

NAME:_____

Corrective

DATE:_____

Answer the following. Justify your answer by showing work!

1. Is $(2x-5)(x+3)$ the factored form of $2x^2-6x-15$?

2. Is $(4x-3)(2x-5)$ the factored form of $8x^2-26x-15$?

3. Is $(3h+4)(3h-4)$ the factored form of $9h^2+16$?

4. Is $(3p+7)(4p+1)$ the factored form of $12p^2+31p+7$

Factor the following if possible. Check your answer by multiplying!

5. $2x^2-5x-12$

6. $9x^2-1$

7. $12x^2+16x-3$

8. $7p^2-33p-10$

9. $4n^2-16n+15$

10. $16d^2-49$

Solve the following by factoring.	
11. $6x^2 - 5x = 6$	12. $4m^2 + 11m = -6$
13. $16x = 5x^2 + 3$	14. $6d^2 + 11d = -3$
15. $25y^2 - 4 = 0$	16. $0 = 9f^2 + 3f - 2$

ANSWERS TO CORRECTIVE ASSIGNMENT

1. YES	2. NO	3. NO	4. YES
5. $(2x + 3)(x - 4)$	6. $(3x - 1)(3x + 1)$	7. $(6x - 1)(2x + 3)$	8. $(7p + 2)(p - 5)$
9. $(2n - 3)(2n - 5)$	10. $(4d + 7)(4d - 7)$	11. $x = -\frac{2}{3}, \frac{3}{2}$	12. $m = -2, -\frac{3}{4}$
13. $x = \frac{1}{5}, 3$	14. $d = -\frac{3}{2}, -\frac{1}{3}$	15. $y = -\frac{2}{5}, \frac{2}{5}$	16. $f = -\frac{2}{3}, \frac{1}{3}$