9.1 Greatest Common Factor

Corrective Assignment

NAME:_____

DATE:_____

Factor the following if possible.		
1. $12x - 16$	2. $3y^2 + 12y$	3. $9t^2 + 10t$
4. $5m^4 + 15m^2$	5. $x^2 - 4x$	6. $7x - 10$
7. $5x^4 + 18x^3 - 3x^2$	8. $6x^2 - 9x + 3$	9. $14x^3 + 28x^2 - 21x$
Use the Zero Product Rule to solve the following factored equations.		
10. $3x(x - 2) = 0$	11. $0 = (x - 1)(x + 1)$	12. $2(3x - 1) = 0$
13. $0 = (2t + 3)(t - 4)$	14. $(d - 2)(2d + 5) = 0$	15. $0 = 5x(2x + 3)(x - 8)$

Solve the following by factoring.	
16. $6x^2 - 12x = 0$	17. $0 = 15b^2 + 25b$

Solve the following by factoring.	
18. $3x^2 - 9x = 0$	19. $5m^2 = 20m$
20. $6x = 3x^2$	21. $d^2 = 8d$
22. $12y^2 - 9y = 0$	23. $4f = 8f^2 + 2f$

ANSWERS TO CORRECTIVE ASSIGNMENT

1. $4(3x - 4)$	2. $3y(y + 4)$	3. $t(9t + 10)$	4. $5m^2(m^2 + 3)$
5. $x(x - 4)$	6. Does Not Factor	7. $x^2(5x^2 + 18x - 3)$	8. $3(2x^2 - 3x + 1)$
9. $7x(2x^2 + 4x - 3)$	10. $x = 0, 2$	11.$x = -1, 1$	12. $x = \frac{1}{3}$
13. $t = -\frac{3}{2}, 4$	14. $d = -\frac{5}{2}, 2$	15. $x = -\frac{3}{2}, 0, 8$	16. $x = 0, 2$
17. $b = -\frac{5}{3}, 0$	18. $x = 0, 3$	19. $m = 0, 4$	20. $x = 0, 2$
21. $d = 0, 8$	22. $y = 0, \frac{3}{4}$	23. $f = 0, \frac{1}{4}$	