

9.1 Greatest Common Factor

Algebra 1

Name: _____

CA #1

Factor the following if possible.

1. $12x - 16$

2. $9t^2 + 10t$

3. $x^2 - 4x$

4. $5x^4 + 18x^3 - 3x^2$

5. $6x^2 - 9x + 3$

6. $14x^3 + 28x^2 - 21x$

Use the Zero Product Rule to solve the following factored equations.

7. $3x(x - 2) = 0$

8. $2(3x - 1) = 0$

9. $(d - 2)(2d + 5) = 0$

Solve the following by factoring.

10. $5m^2 = 20m$

11. $d^2 = 8d$

Solve the following by factoring.

12. $12y^2 - 9y = 0$

13. $4f = 8f^2 + 2f$

Answers to 9.1 CA #1

1. $4(3x - 4)$	2. $t(9t + 10)$	3. $x(x - 4)$	4. $x^2(5x^2 + 18x - 3)$
5. $3(2x^2 - 3x + 1)$	6. $7x(2x^2 + 4x - 3)$	7. $x = 0, 2$	8. $x = \frac{1}{3}$
9. $d = -\frac{5}{2}, 2$	10. $m = 0, 4$	11. $d = 0, 8$	12. $y = 0, \frac{3}{4}$
13. $f = 0, \frac{1}{4}$			