

Algebra 1
7.4 Worksheet #2

Name _____

Directions: Simplify each expression.

1. $5(7x^2 + 3x - 2)$	2. $-3(4x^2 - 8x + 7)$
3. $-4x(2x - 6)$	4. $7x(2x^2 - x + 5)$

Directions: Factor by finding the greatest common factor.

5. $3x^2 + 18$	6. $6x - 12$
7. $5x^2 - 25x$	8. $8a + 2a^2$
9. $-8b^3 + 24b$	10. $3y^4 + 9y^2 - 15$
11. $6c^2 - 9d^2$	12. $14y^2 + 28y$
13. $9x^3 - 27x + 18x^2$	14. $15x + 12y - 6z$

Directions: Solve the equation.

15. $4p^2 - p = 0$

16. $6m^2 + 12m = 0$

17. $25c + 10c^2 = 0$

18. $18q - 2q^2 = 0$

19. $7x^2 - 21x = 0$

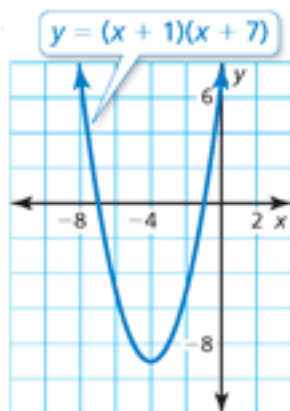
20. $-28x = 4x^2$

21. $4x^2 = 2x$

22. $3n^2 = 9n$

Directions: Find the x-coordinates of the points where the graph crosses the x-axis.

23.



24.

