Homework for 4/14/11
Presentation problems will be #4, 9, and 10

Part I) Factor using the common factor quotient method. In some cases, it may simplify matters to factor out a common factor first.

1. $6x^2 - 7y - 5$
2. $x^2 + 21x + 110$
3. $6x^2 + 22x - 8$
4. $4x^3 - 12x^2 - 7x$
5. $8x^2 + 10x - 25$
6. $20y^3 - 95y^2 - 25y$

Optional: If you need more practice, try a few of the following:

FACTORING TRINOMIALS **Factor the trinomial if possible. If it cannot be factored, write *not factorable*.**

18. $3t^2 + 16t + 5$	**19.** $6b^2 - 11b - 2$	**20.** $4n^2 - 26n - 42$
21. $5w^2 - 9w - 2$	**22.** $4x^2 + 27x + 35$	**23.** $6y^2 - 11y - 10$
24. $6x^2 - 21x - 9$	**25.** $3c^2 - 37c + 44$	**26.** $10x^2 + 17x + 6$
27. $14y^2 - 15y + 4$	**28.** $4z^2 + 32z + 63$	**29.** $6t^2 + t - 70$
30. $8b^2 + 2b - 3$	**31.** $2z^2 + 19z - 10$	**32.** $12m^2 + 48m + 96$

Part II) Complete the square on the following quadratic equations and then solve using the square root method.

7. $x^2 + 2x = 15$
8. $x^2 - 2x - 8 = 0$
9. $x^2 - 9x = -18$
10. $x^2 - 6x + 4 = 0$