HCCM3 Modeling with Polynomial Functions Name: _____
U2 Date: _____ Period: _____
WS: 1

I. Solve by "FACTORING"

1. $2y^2 - 2y = 24$

2. $y^2 - 5y = 0$

3. $6x^2 + 7x - 3 = 0$

4. $4w^2 = 25$

5. $x^2 + 3x - 10 = 0$

6. $3x^2 = 10x - 3$

II. Solve by "COMPLETING THE SQUARE"

7. $y^2 + y - 1 = 0$

8. $y^2 - 6y - 10 = 0$

9. $2y^2 = 3y + 2$

10. $y^2 + 4y - 5 = 0$

11. $k^2 - 10k - 6 = 0$

12. $4x^2 + 2x = 6$

*13. $3x^2 - 6x + 12 = 0$

Something different happens when you try to solve #13 by Completing the Square. Have you worked with this type of solution before? If not, research to see what it means and how solve when you get this type of solution.