Algebra II A
5.8 – Completing the Square   Name _____

Okay, let's start at the beginning…Fill in the blank with the number that makes each trinomial a perfect square.

1. $x^2 + 6x +$ _____

2. $x^2 - 16x +$ _____

3. $x^2 + 20x +$ _____

4. $x^2 - 3x +$ _____

5. $x^2 + 8x +$ _____

6. $x^2 - 12x +$ _____

Solve by completing the square with the "easy" type of problem..

7. $x^2 + 4x - 32 = 0$

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

9. $x^2 - 14x + 19 = 0$
(your answer might have square roots)

10. $x^2 + 10x + 17 = 0$
(your answer might have square roots)

11. $x^2 + x - 5 = 0$

12. $x^2 - 6x = 2$

13. $q^2 - 9q + 11 = 0$

14. $x^2 + 7x = 30$

15. $x^2 + 2x + 4 = 0$

16. $x^2 + 3x + 6 = 0$