**HW # 7 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Completing the Square***

**Find the value of *c* that makes each trinomial a perfect square. Then write the trinomial as a perfect square.**

**3.** $x^{2}$ + 10*x* + *c* **4.** $x^{2}$ – 14*x* + *c*

**Solve each equation by completing the square. Leave answers as integers or simplified radicals.**

**5.** $x^{2}$ – 12*x* = 64 **6.** $x^{2}$ + 8*x +*20 = 0

7. $x^{2}$ – 10*x* – 15= 0 8. $x^{2}$ + 18*x* +100= $-5$

**Convert into Vertex Form and identify the Vertex, Axis of Symmetry, Max/Min Value, Domain and Range.**

**9.** $x^{2}$ +4 *x* – 6 = y **10.** $f\left(x\right)= x^{2}$ – 2*x* – 4

11. $y= 4x^{2}$ – 12*x* + 10