**Math II Homework 2**

**Solve the following problems. SHOW YOUR WORK!**

***Find the value of the discriminant.***

1. x2 + 3x + 5 = 0 2. x2 – 2x – 3 = 0

***Find the roots of each equation.***

3. x2 – 2x – 4 = 0 4. x2 + 3x + 1 = 0

***Simplify.***

5. 2$\sqrt{162}$ 6. -3$\sqrt{8}$

***Add or subtract. Simplify if possible.***

7. $\sqrt{2}$ + 13$\sqrt{2}$ 8. 2$\sqrt{7}$ - 5$\sqrt{7}$

9. 2$\sqrt{8}$ + 3$\sqrt{2}$ 10. 9$\sqrt{2}$ - 5$\sqrt{18}$