**HONORS MATH 3 – SOLVING QUADRATICS WITH COMPLEX ROOTS** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Solve the following using completing the square.***

1. $p^{2}-p+3=0$ 2. $m^{2}-2m+5=0$

3. $3p^{2}+5p+3=0$ 4. $2a^{2}-6a+5=0$

5. $3k^{2}+k+3=0$ 6. $5a^{2}=2a-8$

7. $2a^{2}=a-5$ 8. $-k^{2}-6k=12$

9. $3k^{2}+15k=-21$

***Solve the following using the quadratics formula.***

10. $a^{2}+a+3=0$ 11. $c^{2}+2c+6=0$

12. $k^{2}+3k+7=0$ 13. $13w^{2}-14w=-4$

14. $3y^{2}-y+5=0$ 15. $2m^{2}+3=m$

16. $y^{2}-3y+7=0$ 17. $m^{2}+2m+2=0$

18. $4w^{2}-8w+5=0$