## Unit 4 Notes

Unit 4.1 \& 4.2 Completing the Square

3.


## Unit 4.3 Quadratic Formula

$a x^{2}+b x+c=0 \quad x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$

## Unit 4.5 Complex Numbers, (imaginary numbers)

$\sqrt{-1}=i$
" i " stands for imaginary number or complex numbers, which is outside the real number system. Imaginary numbers are used in real-life applications, such as electricity, as well as quadratic equations. In quadratic planes, imaginary numbers show up in equations that don't touch the $x$ axis. Imaginary numbers become particularly useful in advanced calculus.

