AA7 Complex Numbers

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| Questions | Notes |
| How do I use the Quadratic Formula to find REAL and COMPLEX roots?* $x^{2}+10x+30=0$

 * $2x^{2}-10x+30=0$

 * $-x^{2}+10x=30$
* Find the REAL and COMPLEX Roots of $g(x)=(x+2)(x^{2}+3x+10)$

 * Find the REAL and COMPLEX Roots of

$h(x)=(x^{2}+4)(x^{2}+3x+2)(x^{2}-4)(x^{2}+2x+3)$How do I use the Quadratic Formula (and the discriminant $b^{2}-4ac$ and vertex $x=\frac{-b}{2a}$) to graph parabolas?* Graph $f(x)=x^{2}+5x+4$ and $g(x)=-x^{2}+4x+5$. Label the x-intercepts and vertex for each parabola

How do I use REAL and COMPLEX roots to write the polynomial in Standard Form?* Given a polynomial has roots at $x=3, x=2 and x=-2$, write the polynomial in Standard form.
* Given a polynomial has roots at

$x=3, x=2+i and x=2-i$, write the polynomial in Standard form.* Given a polynomial has roots at

$x=0, x=-5+3i and x=-5-3i$, write the polynomial in Standard form.How do I ADD, SUBTRACT and MULTIPLY Complex Numbers?* $(10-2i)+(3-i)$
* $(10-2i)-(3-i)$
* $(10-2i)(3-i)$
* $(10-2i)(10+2i)$
* $(a+bi) +(a-bi)$
* $(a+bi) -(a-bi)$
* $(a+bi) (a-bi)$
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