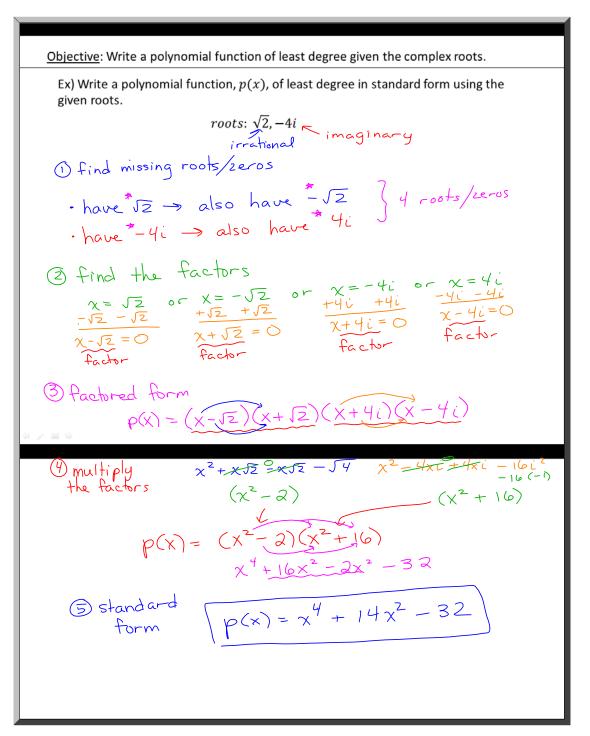
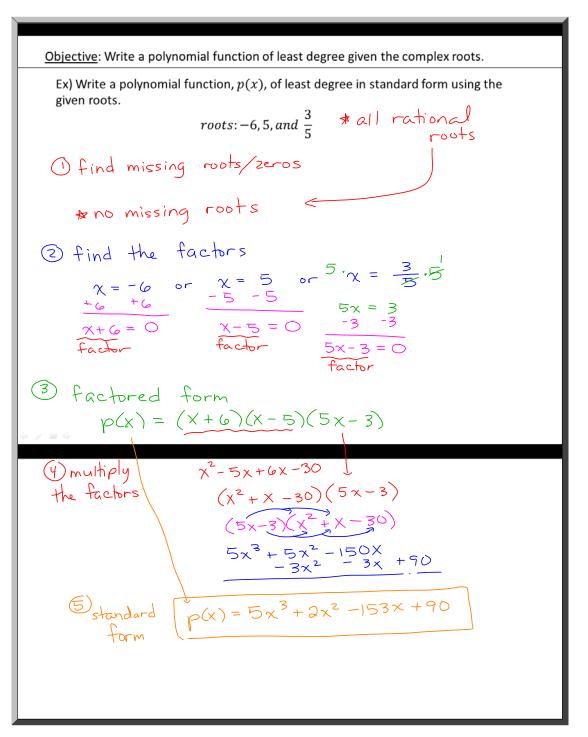


<u>Concept</u>	
Steps to write a polynomial function using the given roots.	
1. Determ	ine any missing irrational or imaginary roots using the Complex
Conjugate	Root Theorem.
2. Find the	e factors related to each root.
3. Multiply	the factors together to write the function $p(x)$ in standard form.



Captured on Wed Apr 25 2018 13:03:31



Objective: Write a polynomial function of least degree given the complex roots.

## <u>Closure</u>

If one root of a fourth degree polynomial function is rational, what must be true about the other three roots?

One of the other three roots must also be rational. The other two roots could be rational or either irrational conjugates or imaginary conjugates.