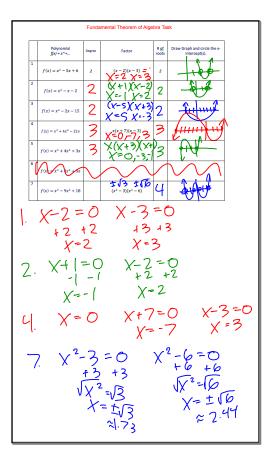
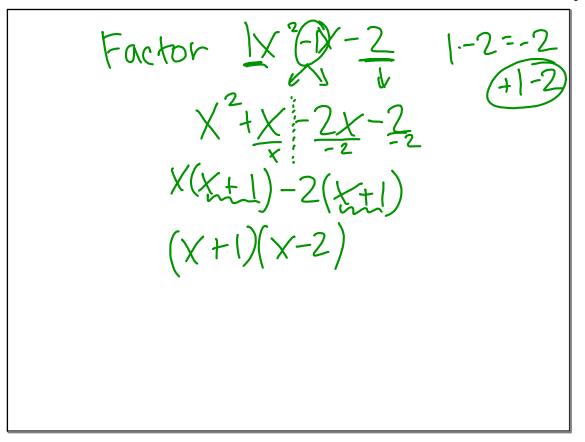
8-4 Fundamental Theorem of Algebra

Objective: SWBAT discover and understand the Fundamental Theorem of Algebra and use quadratics in contextual applications.

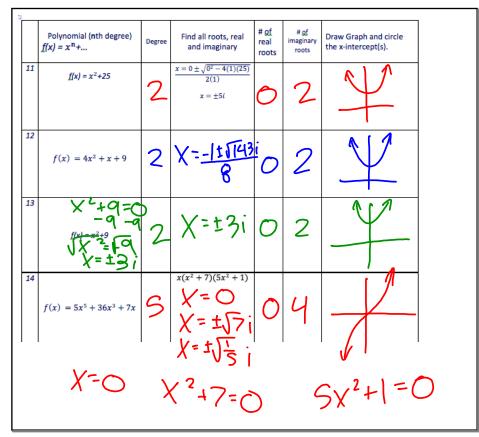
Language Objective: Students can communicate the meaning of the Fundamental Theorem of Algebra by identifying possible root combinations for different polynomials.

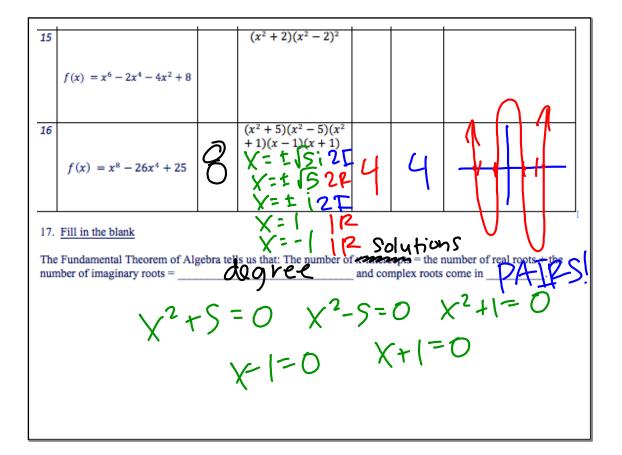


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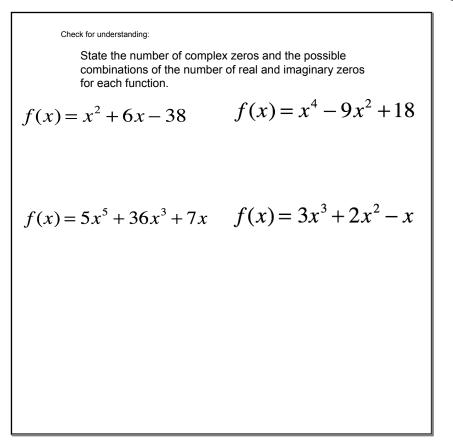
8 S $x^5 - 5x^3 + 4x$ x(x+2)(x+1)(x-1)(x-2)-1,1.2 9 q 8 (x-3)(x+3)(x-2)(x+2)(x+1)(x-1)(x+5)(x-5)Fill in the blank gree 10. Number of x-intercepts = Number of roots =

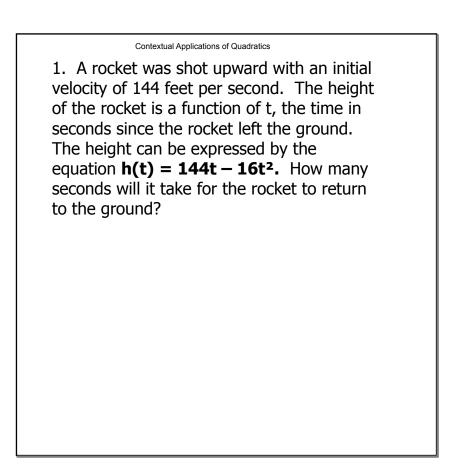




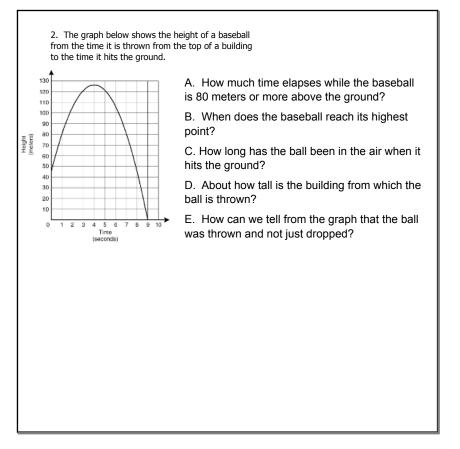
a) $\chi^{q} - 3\chi^{3} + 6\chi^{2} + 2\chi - 60$ 9.4P,0C or 2P,2C or OP,4C 10, 4P, OC or 2P, 20 11. 4P, OC - 2P, 20 12. 4P,0C

b) X⁵+12 5-7 5 mots 96) SP,OE 10,11,12 3P,2E (10,11,12 1P,4E) 10 PALPS





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A publishing company can get 1,000 subscribers for a new magazine if the monthly subscription rate is \$5. It will get 100 more subscribers for each \$.10 decrease in the monthly rate. What monthly rate will produce the maximum monthly income, and what is that income?

A rectangular dog kennel is connected to the side of my house. It is enclosed by 60 ft of fencing on three sides and on the fourth side is my house. Find the maximum area that can be enclosed in this way. What are the dimensions of the dog kennel?

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