Journal Enrty:

Describe how to factor polynomials based on how many terms it has.

Section 5-4 continued

Dividing Using Synthetic Division

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When using synthetic division, you will use the coefficients when dividing by x - a.

-Write the coefficients (including zeros) of the polynomial in standard form (omit variables and exponents)

-for the divisor, reverse the sign (use a)
-allows you to add instead of subtract

Divide using synthetic division. $4x^3 - 3x^2 + 2x - 3 \text{ by } x - 1$ $4 - 3 \quad 2 - 3$ $4 \quad | \quad 3 \quad |$ $4 \quad | \quad 3 \quad |$

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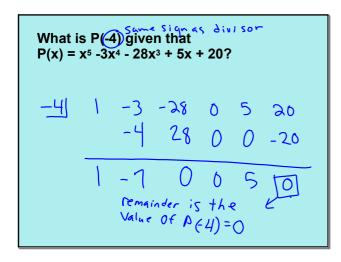
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Use synthetic division to divide $x^3 - 57x + 56$ by x - 7

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5-4 cont.notebook January 23, 2014



Hwk: pg. 308 - 309 #22 - 42 (4th), 44 - 54 (evens), 60

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