Honors Algebra Trig

10/23/17

Chapter 5 Board Review





Factor over the rational, real and complex numbers

$$f(x) = x^4 - 81$$
 $f(x) = x^4 + x^2 - 30$



Given $f(x) = x^4 - 6x^3 + 14x^2 - 6x + 13$, where *i* is a zero. Find the remaining zeros.

Sketch a 5th degree polynomial with:

- 5 real zeros.
- 3 real zeros and 2 complex.
- 1 real zero and 4 complex.



Write the equation for the polynomial with x-intercepts (-3, 0)m1, (-1,0)m2, and (2,0)m3, and y-intercept at (0, 4)

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