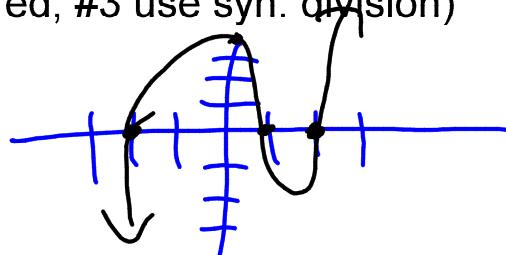


Warm-up

Find the real zeros and sketch a graph.

(Hint: #1 and #2 can be factored, #3 use syn. division)

$$\begin{aligned} 1.) f(x) &= \cancel{(x^3 - x^2)} \cancel{- 4x + 4} \\ &\quad x^2(x-1) - 4(x-1) \\ &\quad (x^2 - 4)(x-1) \\ &\quad (x+2)(x-2)(x-1) \\ &\quad x = -2, 2, 1 \end{aligned}$$



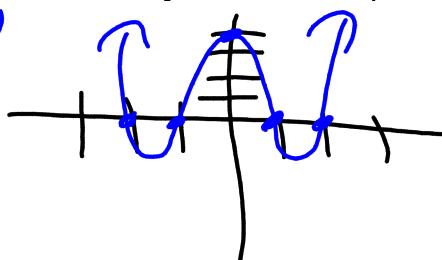
Oct 17-7:51 AM

Warm-up

Find the real zeros and sketch a graph.

(Hint: #1 and #2 can be factored, #3 use syn. division)

$$\begin{aligned} 2.) f(x) &= \cancel{x^4 - 5x^2 + 4} \cancel{+ 4} \\ &\quad (x^2 - 4)(x^2 - 1) \\ &\quad (x+2)(x-2)(x+1)(x-1) \\ &\quad x = -2, 2, -1, 1 \end{aligned}$$



Oct 17-7:51 AM

Warm-up

Find the real zeros and sketch a graph.

(Hint: #1 and #2 can be factored, #3 use syn. division)

3.)

$$f(x) = \underline{x^3 - 5x^2 + 2x + 8} \quad \underline{-1} \quad \begin{array}{r} 1 & -5 & 2 & 8 \\ \downarrow & -1 & 6 & -8 \\ 1 & -6 & 8 & 0 \end{array}$$

$\frac{8}{1} : 1, 2, 4, 8$

$x^2 - 6x + 8$
 $(x-4)(x-2)$
 $x=4 \quad x=2$

Oct 17-7:51 AM

Word Problem WS-due on Review Day

*skip 2, 3, and 4

Oct 22-9:12 AM

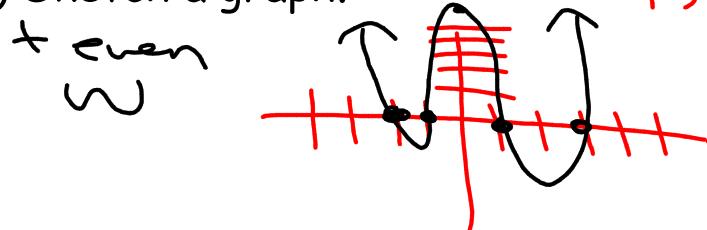
Go over DLTs

Nov 1-8:54 AM

$$f(x) = x^4 - x^3 - 7x^2 + x + 6$$

Review

- 1.) How many roots? 4
- 2.) List all the possible roots. $\frac{6}{1} \frac{1, 2, 3, 6}{1} \pm 1, 2, 3, 6$
- 3.) Find all roots. $-1, 1, 3, -2$
- 4.) Write the function in Intercept form.
- 5.) Write the x and y -intercepts as ordered pairs. $(-1, 0), (1, 0), (3, 0), (2, 0), (0, 6)$
- 6.) Sketch a graph.



Oct 30-11:09 AM

Using a function behavior to describe leading coefficient & degree of a polynomial.

*Work on Matching Cards

-yellow graph

-blue equation (intercept form)

-orange equation (standard form)

*Find a group (no more than 4) break up the equations and graphs into:

+odd ↗
-odd ↘
+even ↙
-even ↘↗

Oct 19-9:25 PM

*DLT!

Nov 3-7:16 AM

*Matching Game

(graphs with equations or sum/difference of cubes)

Nov 3-7:16 AM

Test Covering Ch5

- > 5.4 Solve by factoring
 - > 5.5 Solve by using synthetic/long division
 - > 5.6 Solve using the Rational Zero Thrm
 - > 5.8 Graphing -using a table, using the roots
 - > 5.2 Graphing Properties- end behavior, #of roots, # of turns, etc
 - > 5.7 Fund. Thrm of Algebra- write function given zeros
 - > 5.3 Add, Subtract, Multiply polynomials
- >Word Problems

Oct 29-12:21 PM

- *MC questions
- *Factoring Bingo
- *scavenger hunt
- *page swap
- *IXL.COM
- *Blue Sheets

<https://quizizz.com/admin/quiz/5aa992ee3e333d001b61edc7/higher-order-polynomials>

<https://quizizz.com/admin/quiz/59fa1ef9552f1a1400592cf7/factor-higher-order-polynomials>

<https://quizizz.com/admin/quiz/5a9efe213a777300197545db/solving-higher-order-polynomials>

Oct 22-9:24 AM

Homework:
-Word Problem WS
-Review WS

***Test 11/9 and 11/12!!!

Oct 20-11:31 AM