

Stick Quiz

Target 5-3


1. If $p(x) = x^2 - 3x + 4$, find $p(x + 2)$.

$x^2 + x + 2$

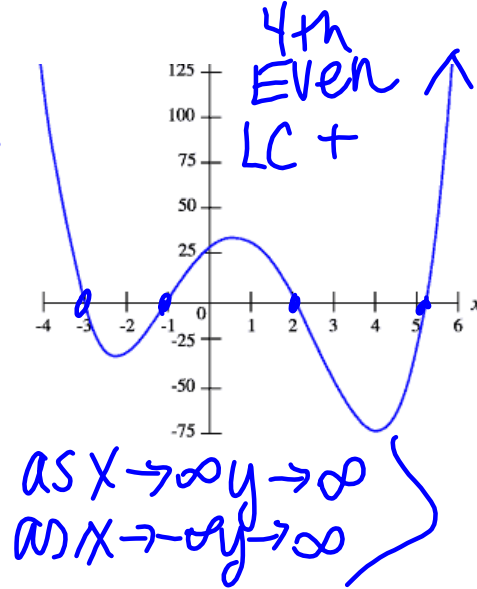
Describe end behavior, zeros, degree and leading coefficient for the following.

2. $f(x) = -4x^5 + 2x^3 + 6$.

5th Deg
ODD
LC: -4
AS $x \rightarrow \infty, y \rightarrow -\infty$
AS $x \rightarrow -\infty, y \rightarrow \infty$




3.




Jan 24-7:17 AM

1) $f(x) = x^3 - 4x^2 + 7$
3rd Deg ODD
LC 1 POS
AS $x \rightarrow \infty, y \rightarrow \infty$
AS $x \rightarrow -\infty, y \rightarrow -\infty$



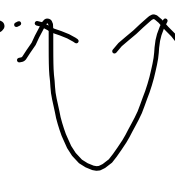
2) $f(x) = x^3 - 4x^2 + 4$
3rd Deg ODD
POS.
AS $x \rightarrow \infty, y \rightarrow \infty$
AS $x \rightarrow -\infty, y \rightarrow -\infty$



3) $f(x) = x^3 - 9x^2 + 24x - 15$

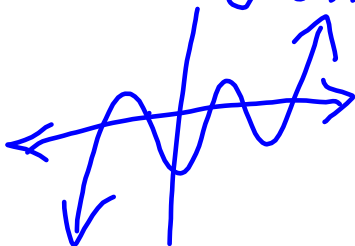
4) $f(x) = x^2 - 6x + 11$

2nd Deg. Even. pos.
AS $x \rightarrow \infty, y \rightarrow \infty$
AS $x \rightarrow -\infty, y \rightarrow \infty$



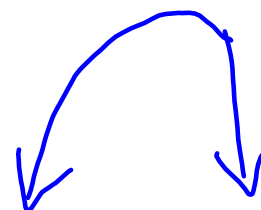
5) $f(x) = x^5 - 4x^3 + 5x + 2$

5th Deg. ODD +



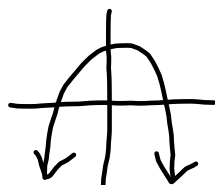
6) $f(x) = -x^2 + 4x$

2nd Deg. Even, -



Nov 21-12:05 PM

11



Nov 21-12:14 PM

? ? Questions ?
? on ? ?
? Homework ?
? ? ?
? ? ?

Jan 24-7:17 AM

LESSON 5-4 Analyzing Graphs of Polynomial Functions

I can... locate the zeros, relative maxima and minima of a polynomial on a graphing calculator. I can use this information to sketch a graph.

Jan 10-1:00 PM

1. $f(x) = x^4 - x^3 - 4x^2 + 1$

y = plug in equation

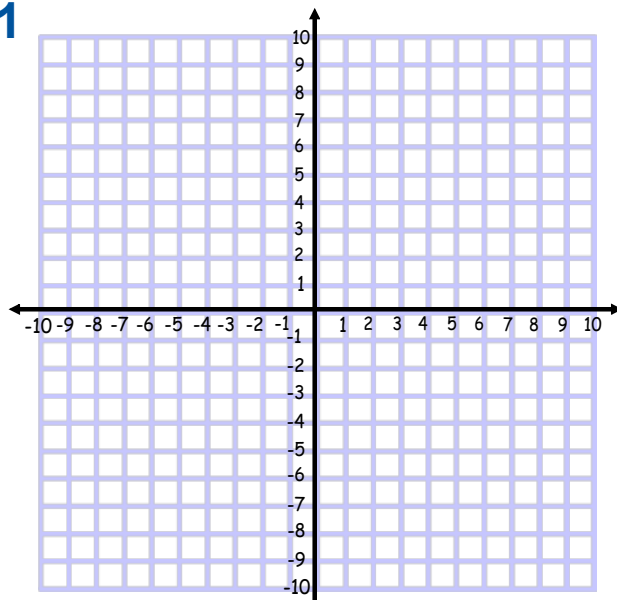
Graph

(Change window if needed)

2nd then **Calc**

TRACE

Select 2:Zeros



Must go to the left of the zero, then the right, then you must guess where the zero is.

****You can not pass any other zero during the process****

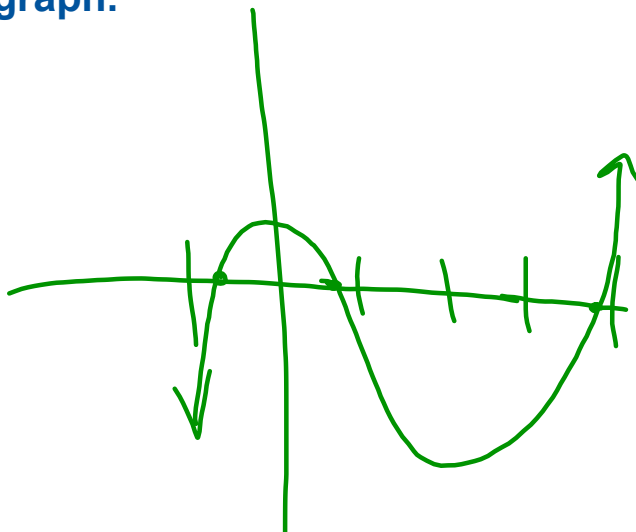
Repeat for every Zero

Jan 24-7:18 AM

You Try!!

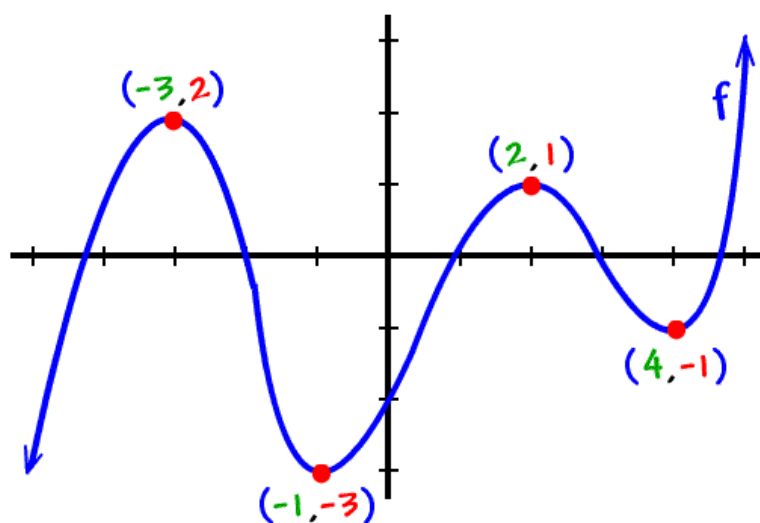
2. Determine each real zero of the function

$f(x) = x^3 - 4x^2 + 2$. Then graph.



Jan 24-7:18 AM

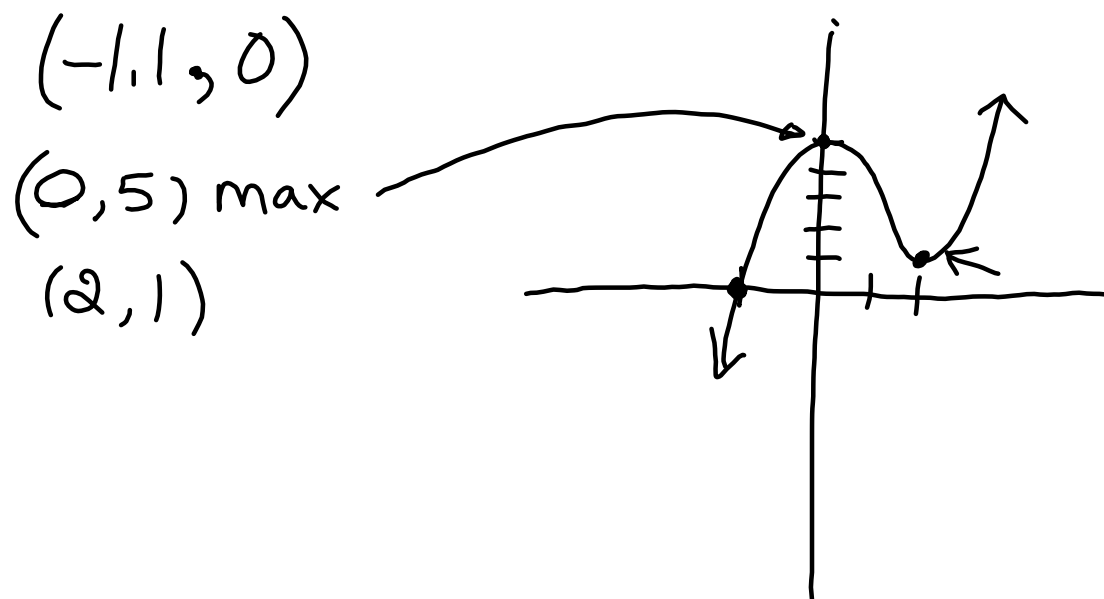
Relative and Local Minimum and Maximum



Same Process on the calculator except when in the calc menu select minimum or maximum.

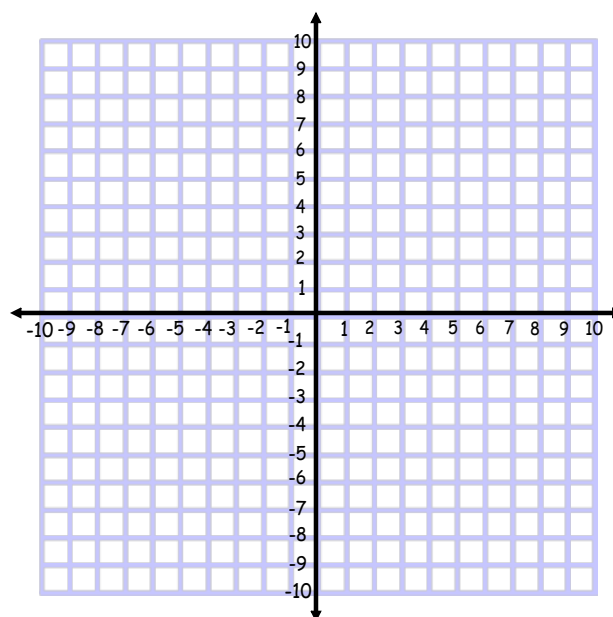
Jan 24-9:01 AM

3. Graph $f(x) = x^3 - 3x^2 + 5$. Estimate the x -coordinates at which the minimums and maximums occur.



Jan 24-7:18 AM

4. Graph of $f(x) = x^3 + 3x^2 + 2$. Estimate the x -coordinates at which the relative maximum and relative minimum occur.



Jan 24-10:24 AM

5. Graph the equation $w(n) = 0.1n^3 - 0.6n^2 + 110$.

Describe the turning points of the graph and its end behavior.

Jan 24-10:24 AM

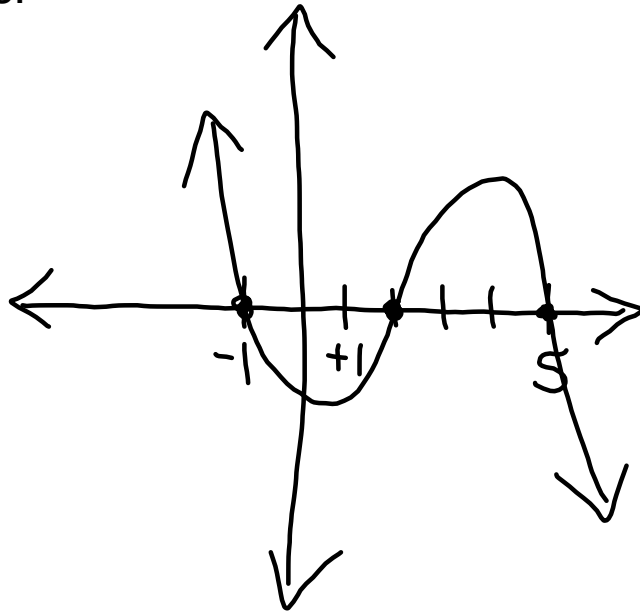
6. Graph the equation $r(m) = 0.01m^3 - 0.18m^2 + 0.67m + 3.23$.

Describe the turning points of the graph and its end behavior.

Jan 24-10:37 AM

Sketch a graph of a polynomial function with the following characteristics.

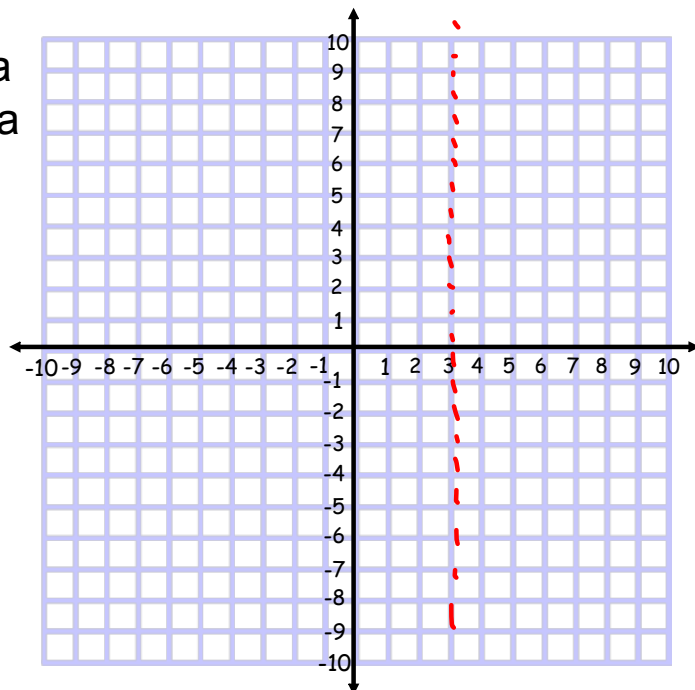
7. an odd function with zeros at -1 , 2 , and 5 and a negative leading coefficient.



Jan 28-8:33 AM

Sketch a graph of a polynomial function with the following characteristics.

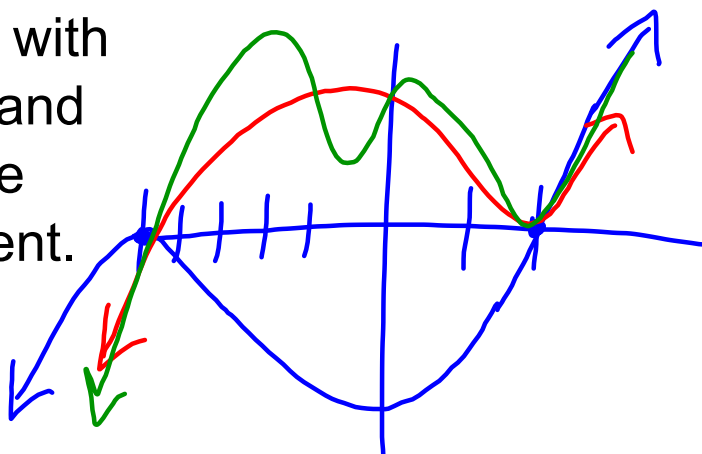
8. an even function with a minimum at $x = 3$ and a positive leading coefficient.



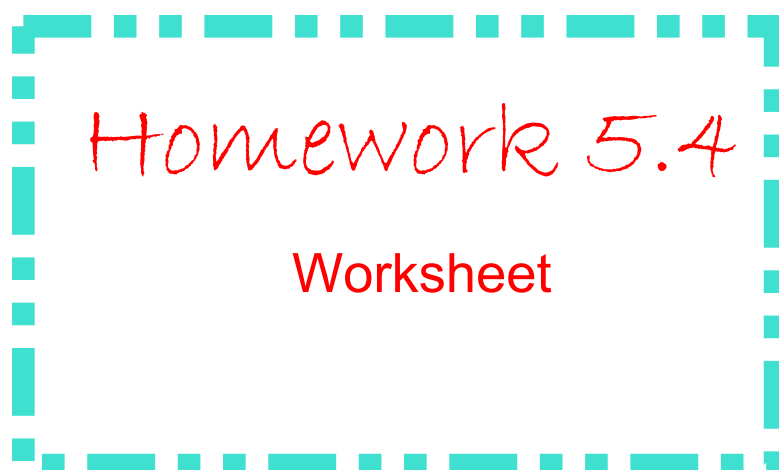
Jan 28-8:37 AM

Sketch a graph of a polynomial function with the following characteristics.

9. an odd function with zeros only at 2 and -5 and a positive leading coefficient.



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