Algebra 2 Ch. 5 MCT Review

Quiz 5.3-5.4 today MCT 5.1-5.4 is Tues.

5_3 Polynomial Functions

State the degree and leading coefficient of each polynomial in one variable. If it is not a polynomial in one variable, explain why.

22.
$$5x^6 - 3x^4 + x^3 - 9x^2 + 1$$

Find p(-2) and p(x + h) for each function.

25. $p(x) = x^2 + 2x - 3$

$$(x+h)^{e}+2(x+h)-3$$

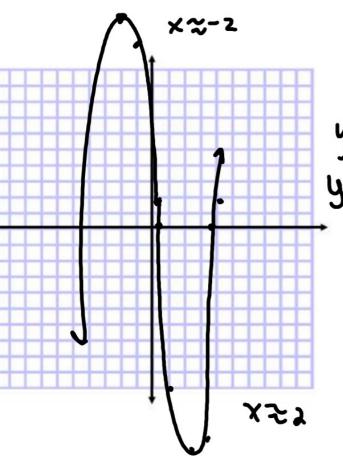
 $\chi^{2}+2hx+h^{2}+2x+2h-3$

5_4 Analyzing Graphs of Polynomial Functions

Complete each of the following.

- a. Graph each function by making a table of values.
- b. Determine the consecutive integer values of x between which each real zero is located.





Use graphing calc (if you want)
Will not be coming around fixing things
for you...ask now if you have questions.

Operations with Polynomials

Simplify. Assume that no variable equals 0.

11.
$$\frac{14x^4y}{2x^3y^5}$$

$$(m + p)(m^2 - 2mp + p^2)$$

5_9 Dividing Polynomials

Simplify.

17.
$$\frac{12x^4y^5 + 8x^3y^7 - 16x^2y^6}{(4xy^5)}$$

19.
$$(a^4 + 5a^3 + 2a^2 - 6a + 4)(a + 2)^{-1}$$

synthetic division or old school...

$$\frac{-2}{1} \frac{1}{3} \frac{6}{-6} \frac{2}{8} \frac{-6}{-9}$$

$$\frac{1}{3} \frac{-9}{4} \frac{3}{4} \frac{3}{$$