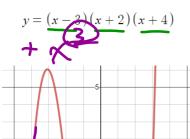
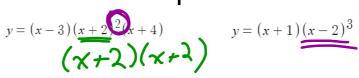
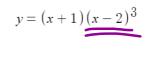
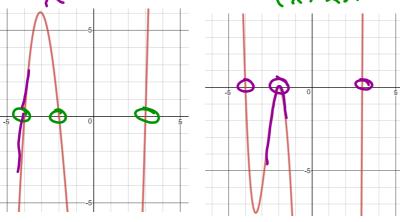
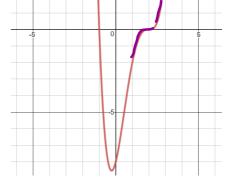
Equations and Graphs











$$x-3=0$$

$$x=3$$

Factors and x-intercepts

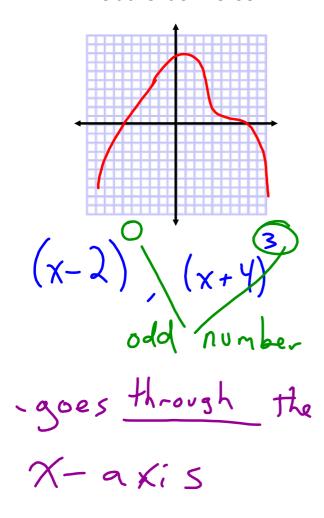
Factors of a function, f(x) correspond with the x-intercepts of the graph of f(x).

If
$$(x-a)$$
 is a factor of $f(x)$, then "a" is an $x-int$ of $f(x)$

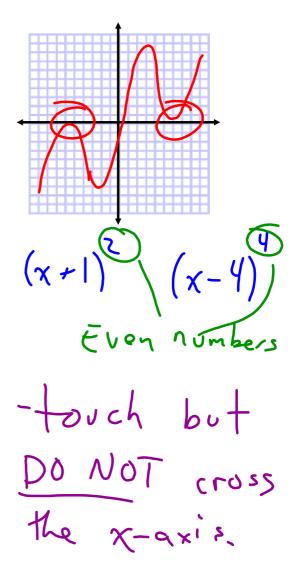
Order of an x-intercept

when a factor is repeated n times, the x-intercept is said to have order n

Odd Order Zeros

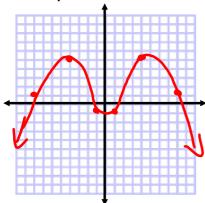


Even Order Zeros

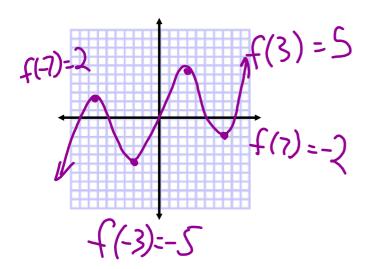


Odd and Even Functions

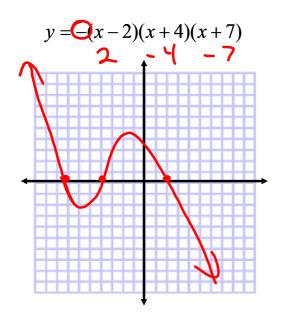
An even functions satisfies the property f(x) = f(-x) for all x values and has line symmetry in the y-axis. A function is an even function if the exponent of each term is an even number.

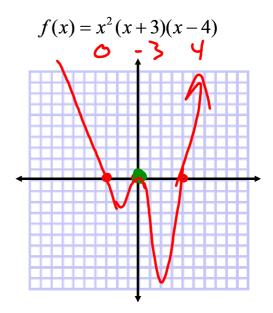


An odd functions satisfies the property f(x) = -f(-x) for all x values and has point symmetry at the origin. A function is an odd function if the exponent of each term is an odd number.

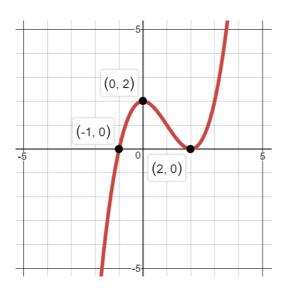


Sketch the graph of the following:





Determine an equation for the graph



Homework

pg. 39 # 2(i, iii), 3, 5, 6