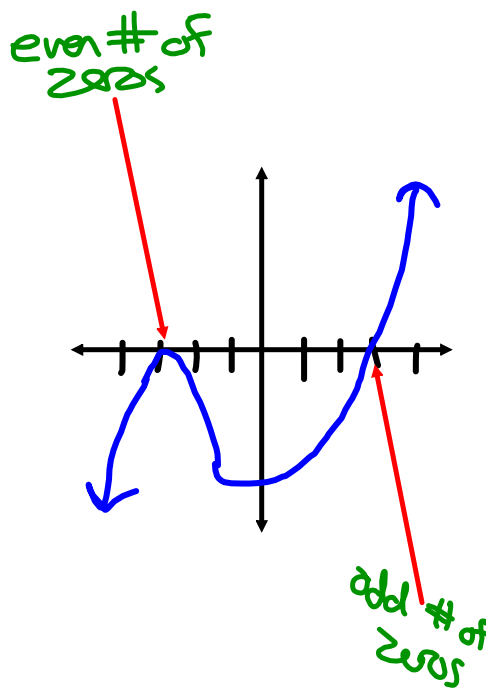


Section 5.8 - Graphing Polynomials

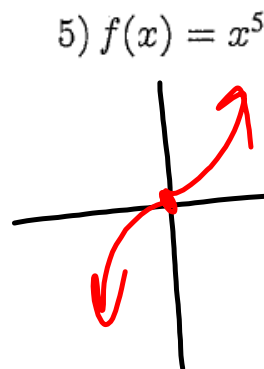
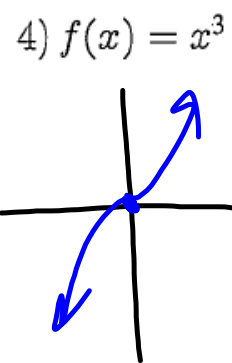
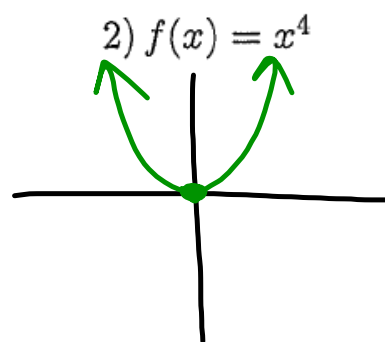
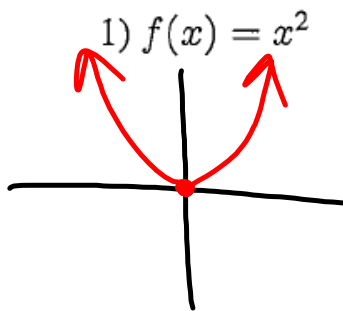
End Behavior:

		Leading Coefficient	
		Positive	Negative
Degree	Even		
	Odd		

Zero's Behavior:



Graph each function without using a grapher.

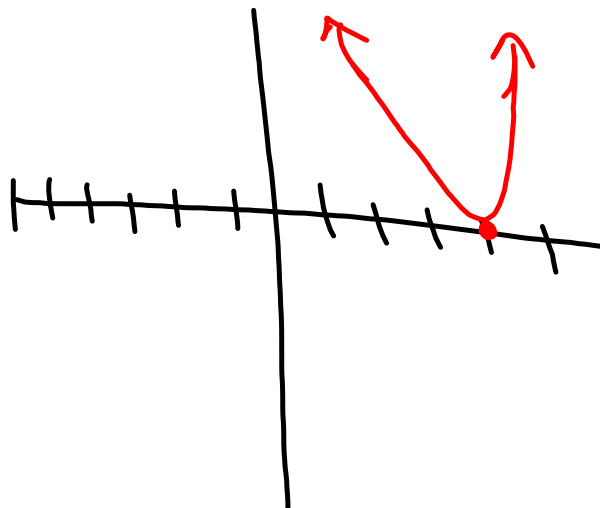


Graph each polynomial function without a grapher. Clearly mark the zeros and state its multiplicity.

$$7) f(x) = (x - 4)^2$$

zeros	4
mult	2

deg: 2
L.C.: pos

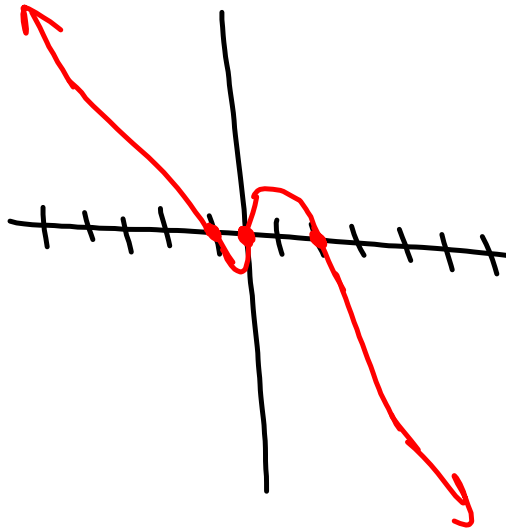


Graph each polynomial function without a grapher. Clearly mark the zeros and state its multiplicity.

$$8) f(x) = -x(x-2)(x+1)$$

zeros	2	-1	0
mult	1	1	1

deg: 3
l.c.: neg

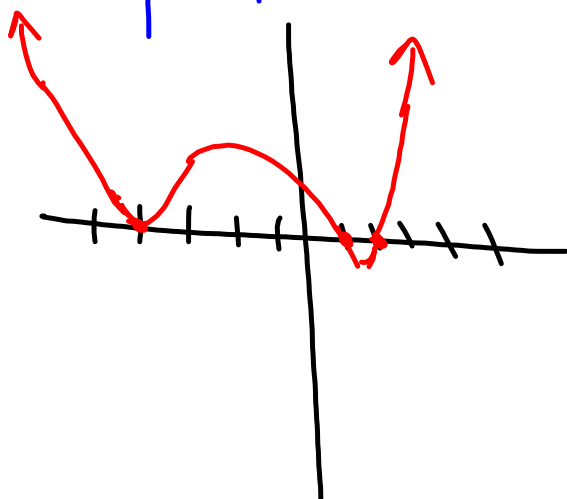


Graph each polynomial function without a grapher. Clearly mark the zeros and state its multiplicity.

$$10) g(x) = (x - 1)^3(x + 4)^2(x - 2)$$

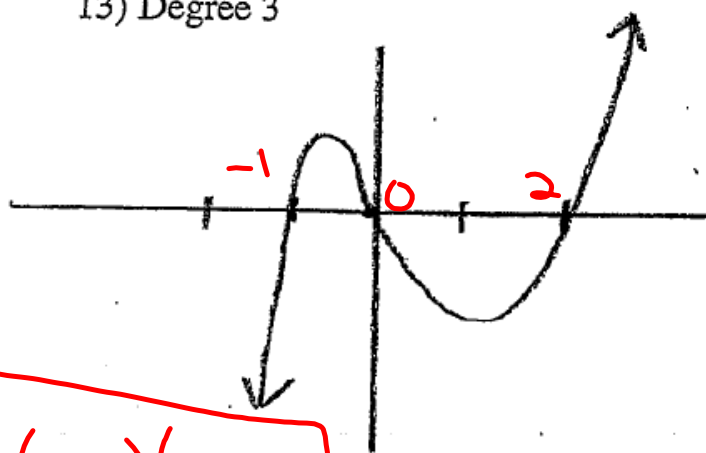
zeros	1	-4	2
mult	3	2	1

deg: 6
L.C.: pos



Determine an equation for the polynomial graph pictured below.

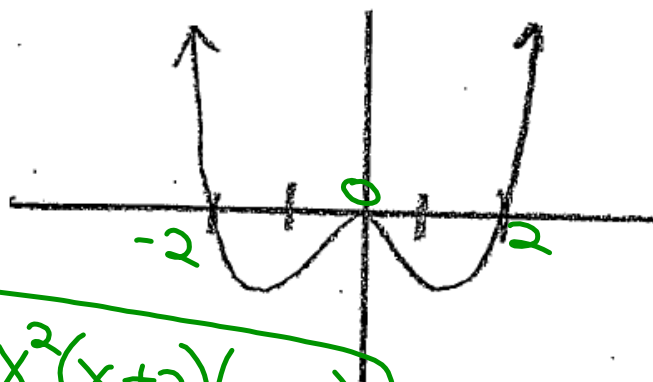
13) Degree 3



$$f(x) = x(x+1)(x-2)$$

Determine an equation for the polynomial graph pictured below.

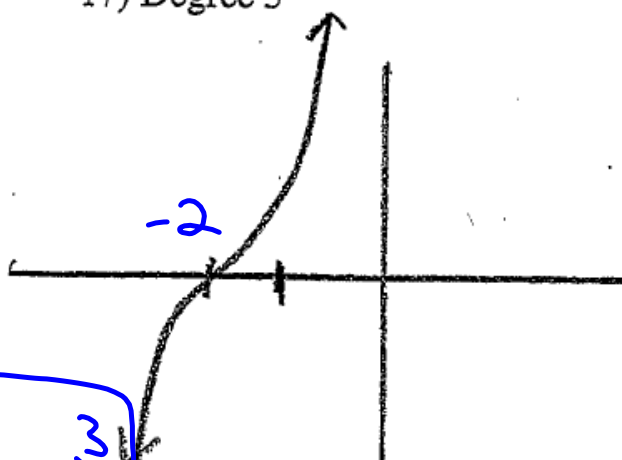
15) Degree 4



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

Determine an equation for the polynomial graph pictured below.

17) Degree 3



$$f(x) = (x + 2)^3$$