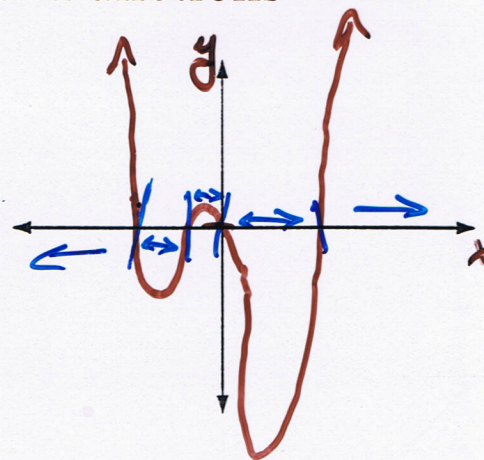


1.3 Equations and Graphs of Polynomial Functions

Investigation #1

1. Function: $y = x(x-3)(x+2)(x+1)$	
the degree of the function 4	the sign of the leading coefficient $+$
the x intercepts $0, 3, -2, -1$	the y intercepts 0



Interval	$x < -2$	$-2 < x < -1$	$-1 < x < 0$	$0 < x < 3$	$x > 3$
Sign of $f(x)$	$+$	$-$	$+$	$-$	$+$

Reflect:

#2i)	ii)	iii)
x intercepts $-1, -3, 2$	x intercepts $-3, 2$	x intercepts 2
y-intercepts -6	y-intercepts 12	y-intercepts -8

Reflect: