



# Manynomial

Birthday 1/15/1965

Polynomial  $-x^6 + x^5 + 5x^4 + x^3 - 9x^2 - 6x + 5$

Degree 6

Leading coefficient -1

# turning points 5 or 3 or 1

Maximums: Local 6.023 Absolute 14.444

Minimums: Local -4.051

Absolute Max  
(2.145, 14.444)

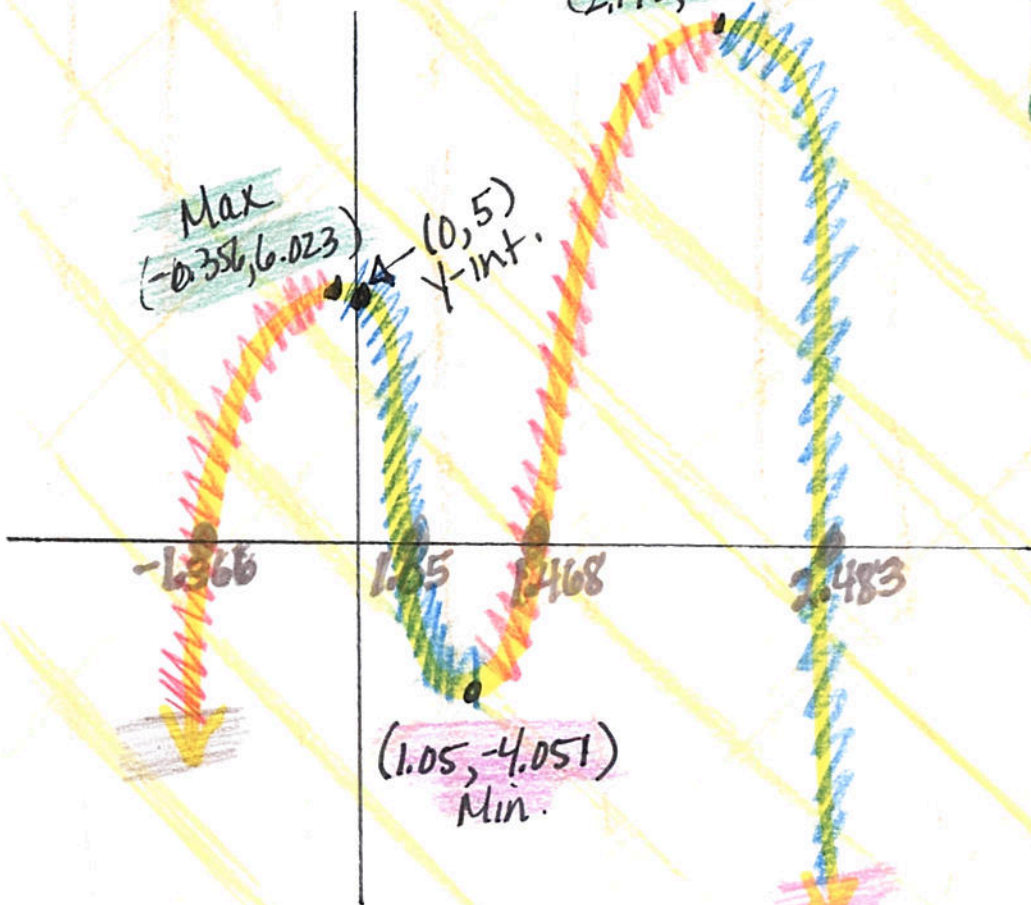


Domain  $(-\infty, \infty)$

Range  $(-\infty, 14.444]$

Increasing:  $(-\infty, -0.356) \cup (1.05, 2.145)$

Decreasing:  $(-0.356, 1.05) \cup (2.145, \infty)$



$\lim_{x \rightarrow -\infty} f(x) = -\infty$

$\lim_{x \rightarrow +\infty} f(x) = -\infty$

Zeros:  
 $x = -1.366$   
 $x = 1.05$   
 $x = 1.468$   
 $x = 2.483$

Y-intercept: (0, 5)

BIRTHDAY