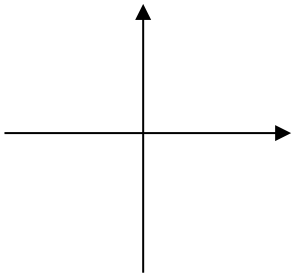
PARENT POLYNOMIAL FUNCTION BEHAVIOR

Analyze each polynomial function by the following characteristics:

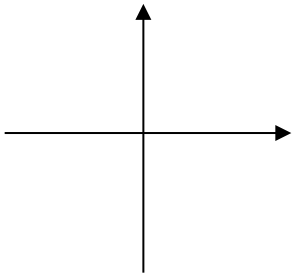
1. even/odd/neither
2. axis of symmetry
3. end behavior
4. possible number of real zeros

Write a summary about your discoveries:

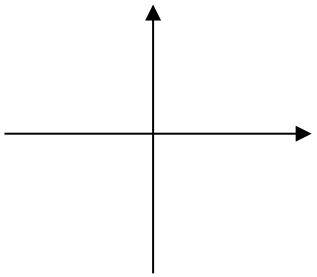
EX #1: $y = c$



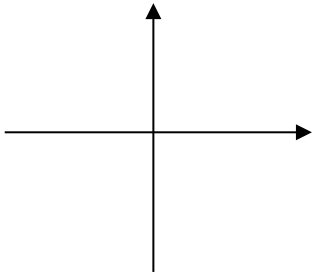
EX #2: $y = x$



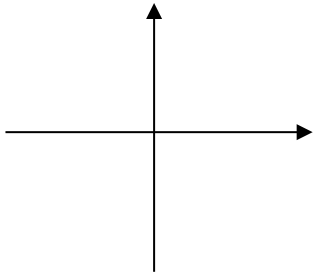
EX #3: $y = x^2$



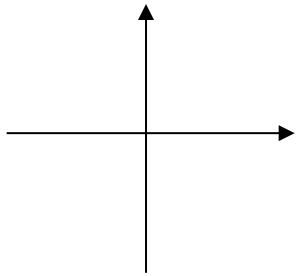
EX #4: $y = x^3$



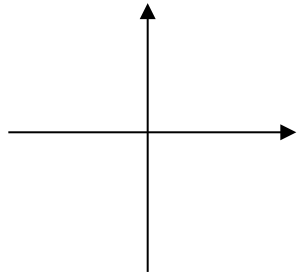
EX #5: $y = x^3 + \ldots$



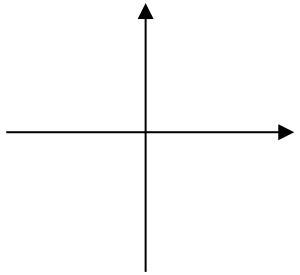
EX #6: $y = x^4$



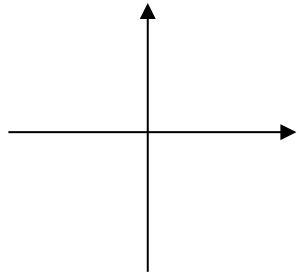
EX #7: $y = x^4 + \ldots$



EX #8: $y = x^5$



EX #9: $y = x^5 + \ldots$



EX #10: Can you tell?

$y = x^3 - x$