Name: _____   Date: _____

Learning Goal 3.3	Solving equations algebraically and graphically.

More Questions

1. Consider the functions and without the use of technology, determine the following attributes. Sketch the graph, then compare to desmos.

- Degree
- Leading Coefficient
- $y -$ intercept value
- $x -$ intercept value(s)

- Interval(s) where the function is positive
- Interval(s) where the function is negative

   a. $y = (x - 2)^3(x + 1)$
   b. $g(x) = (x - 1)(x + 2)(x + 3)$
   c. $f(x) = -x^3 + 13x + 12$
   d. $y = -2x^3 + 6x - 4$

2. Find the attributes of the graphs below.

- Least possible degree
- Sign of the leading coefficient
- $x -$ intercepts and the factors of the function
- Intervals where positive and negative