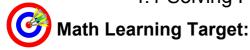
4.1 Solving Polynomial Equations PART 2



"By the end of class, I can solve any polynomial equation."

Ex. 1: Use graphing technology (desmos or Ge@Gebra) to solve, to the nearest hundredth.

$$21x^{3} - 58x^{2} + 10 = -18x^{4} - 51x$$
Let $f(x) = 21x^{3} - 58x^{2} + 10$

$$g(x) = -18x^{4} - 51x$$

Method 1

OR

Method 2

$$f(x) = g(x)$$

Create 1 function: h(x) = f(x) - g(x)

Find the point(s) where these two functions **intersect**.

Find the **zeros** of this new function; i.e. h(x) = 0

Confirm with Desmos File, then show using GeoGebra.

*** wrong answer in back: it should be x=5, x=-2 and x=-3