

4.1 Solving Polynomial Equations *PART 2*



Math Learning Target:

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

Ex. 1: Use graphing technology (**desmos** or GeoGebra) to solve, to the nearest hundredth.

$$21x^3 - 58x^2 + 10 = -18x^4 - 51x$$

Method 1

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

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

OR

Method 2

Create 1 function: $h(x)$

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

∴

Entertainment: p. 204 # 8ac, 7b, 9c, 10, 11** , 13, 15, 16***, 18

* do #8 first

** $x \in W$ means

x is a Whole number $W = \{0, 1, 2, 3, \dots\}$

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