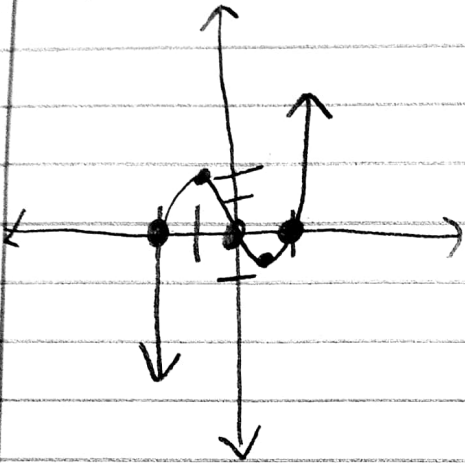


Graphing Polynomial Functions

- Plot the roots on the x-axis, pick pts in between to plug in, determine end behavior, find max/min

Ex. $f(x) = x^3 + x^2 - 2x$ w/ roots $1, -2, 0$



$$(0.5, -0.625) \quad (-1, 2)$$

$$L \text{min} (0.5, -0.625)$$

$$L \text{max} (-1, 2)$$

$$y\text{-int: } (0, 0)$$

$$EB: \text{ As } x \rightarrow -\infty, f(x) \rightarrow -\infty$$

$$\text{ As } x \rightarrow \infty, f(x) \rightarrow \infty$$