Algebra 2 3Tri 6.1 – 6.3 & Graphing Review

Name:	Ven
	POOL
Period:	Date:

You should complete this review without the use of a calculator.

- 1. Factor completely and find all of the zeros of each polynomial.
  - a.  $y = x^{4} 64x^{2}$   $\chi^{2}(\chi^{2} - 6\chi)$   $\chi^{2}(\chi + s)(\chi - s)$   $\chi^{-} b, - s, g$ b.  $y = 2x^{5} - 12x^{4} + 18x^{3}$   $2\chi^{3}(\chi^{2} - 6\chi + 9)$   $2\chi^{3}(\chi - 5)(\chi - 3)$  $\chi^{-} b, - s, g$

c. Classify each polynomial above by degree and number of terms.

quartic Simmel

quintic trimmical

2. Find key features to graph each polynomial equation. (Include *x*-intercepts, *y*-intercept, end behavior, and cross/bounce)







7. If (2x+1) is a factor of some polynomial, what does that tell us about the graph?

tells us that -1/2 is an X-int