Date $\qquad$
Period $\qquad$

## Complex Zeros

Let's explore the graphs of higher degree polynomials. Use Desmos or a graphing calculator to graph each function. Sketch a graph below.

4. $y=x^{4}-5 x^{2}-36$
$\quad$ \# of zeros: $\mathbf{4}$

Find ALL the zeros algebraically (Factor completely, hint: first factor by grouping)
0
$\stackrel{y}{0}$
$i$


