### 2.2 Polynomial Functions of Higher Degree

- Use transformations to sketch graphs of polynomial functions
- Determine end behavior by looking at the leading coefficient
- Find and use zeros of polynomial functions as sketching aids


Transformations of higher degree polynomial functions.

| If this is $y=x^{3}$ |
| :---: |
| $\vdots \vdots$ |
| $\vdots$ |
| $\vdots:$ |
| $:$ |

then what is this?


If this is $y=x^{4}$

then what is this?


Guess at these:



