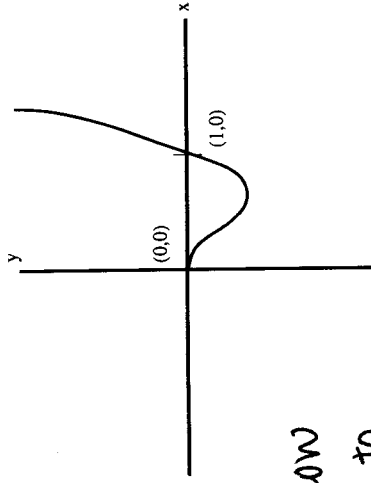
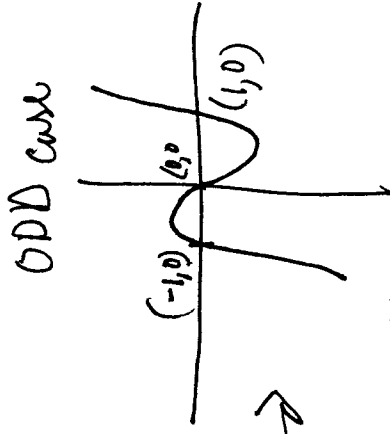


Problem 7 (10 points). The graph below is of $h(x) = x^2(x-1)$ on the domain $x \geq 0$.



This we know
how to
do



a) Give an odd function with domain all real numbers that agrees with $h(x)$ on $x \geq 0$. Sketch the graph of this function.

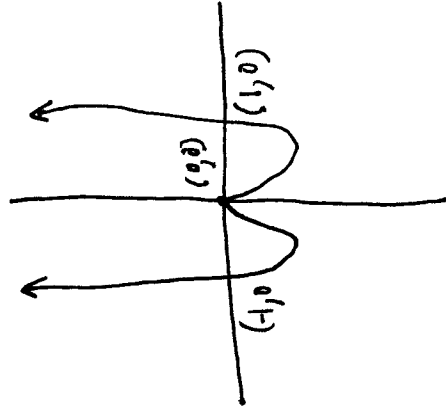
~~the~~

$$h(x) = \begin{cases} x^2(x-1) & x \geq 0 \\ x^2(x+1) & x < 0 \end{cases}$$

Don't worry about this part.
It will not be on the test

b) Give an even function with a domain all real numbers that agrees with $h(x)$ on $x \geq 0$. Sketch the graph of this function.

EVEN case



$$h(x) = \begin{cases} x^2(x-1) & x \geq 0 \\ -x^2(x+1) & x < 0 \end{cases}$$

Again don't worry about this.