7. [8 points] For each part below, carefully draw the graph of a single function on the given axes that satisfies the given conditions.
a. [4 points]

A function $u(x)$, defined for all $-3 \leq x \leq 3$, that satisfies all of the following:

- $u(x)$ is invertible;
- $u(x)$ is decreasing and concave up on $(-3,0)$;
- $u(x)$ is increasing and concave down on $(0,3)$;
- $u(x)$ is not continuous at $x=0$, but is continuous on the intervals $(-3,0)$ and $(0,3)$.

b. [4 points]

A function $v(x)$, defined for all $-3 \leq x \leq 3$, that satisfies all of the following:

- $v(x)$ is an even function;
- $v^{\prime}(2)=-1$
- $\lim _{x \rightarrow 3^{-}} v(x)$ exists but does not equal $v(3)$.
- $\lim _{h \rightarrow 0^{+}} \frac{v(0+h)-v(0)}{h}=1$


