Graph information from derivatives Math 104 Section 106 - Oct 2012 Group Names and Student Numbers (minimum of two names required for participation to be recorded): 1. Draw a graph that satisfies the given derivative chart. flo), for DNE fix) at x=2; f'a)=0 confinuous. may have at x=0.

$$f(x) = 1 \cdot e^{-x^{2}} - (x+1)e^{-x}$$

$$= (1 - (x+1))e^{-x}$$

$$f''(x) = 1 \cdot e^{-x} - xe^{-x}$$
  
=  $(1-x)e^{-x}$ 

zero at 
$$(1-x)e^{-x}=0$$
only when  $x=1$ 

 $f(x) = (x+1)e^{-x}$ 

$$\begin{cases}
f'(x) + \phi - \phi \\
f'(x) - \phi +
\end{cases}$$

of 
$$2^{aba}$$
 |  $x=0$ 
 $y=f(x)=(x+1)e^{-x}$ 

inflection

point

 $x=0$ 
 $x=0$