## Directional derivative of(x)·u Fortest assent direction $argmax \nabla f(x) \cdot u = \nabla f(x)$ ( (ouchy - Schwarz) 11 4112=1 2 Def(x) a.b = (lail (|bil cos 0 Local/alobel maxima/minima global minima T global minimum Line search methods $f(x) \rightarrow f(x-\eta \circ f(x))$ **一**多(1) Exact line search argmin f(x-10f(x))

