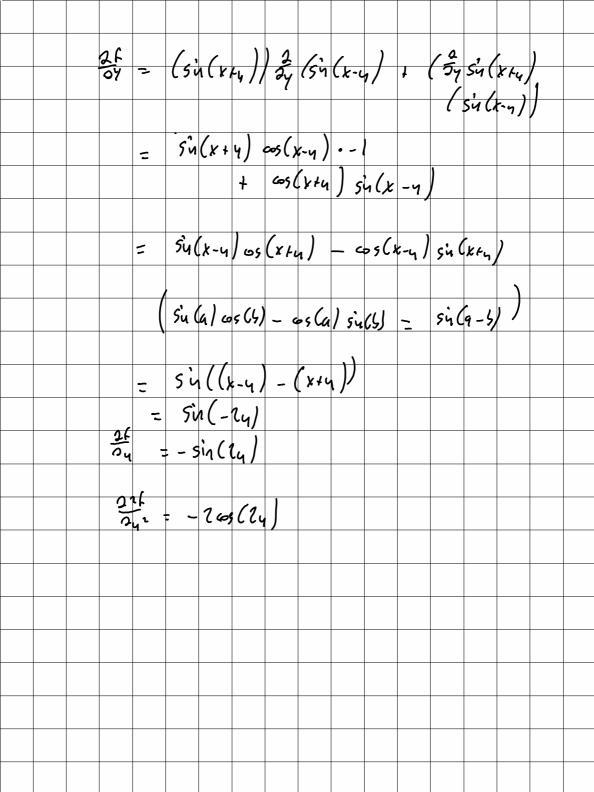
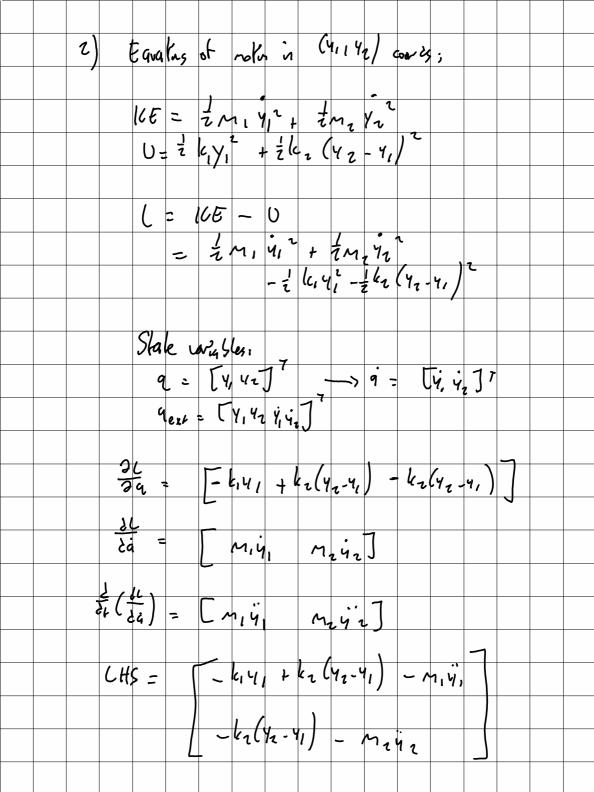
Proving a given ple is a minister of
$$f$$
:

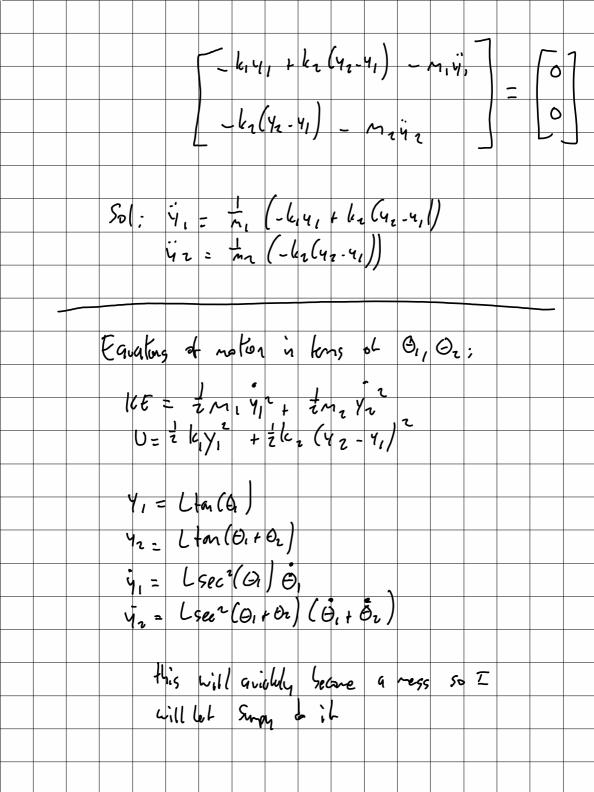
Objective is be shown $\frac{1}{2x}(f) = \frac{1}{5x}(f) = 0$

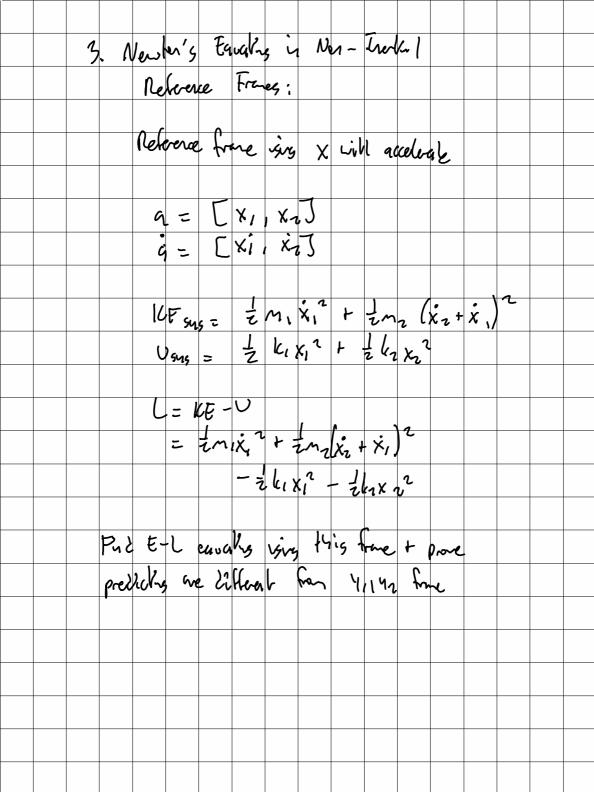
in $2(\frac{1}{2x})(\frac$

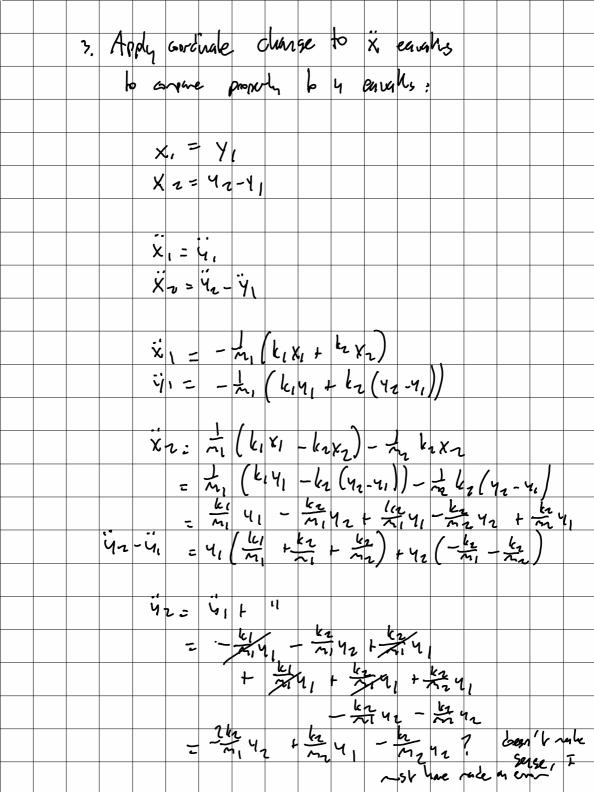


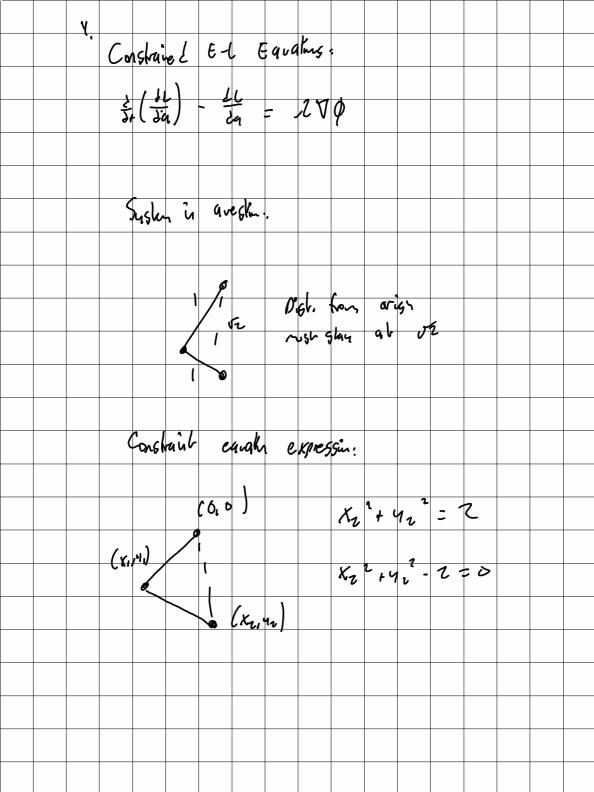
1st \cdot 2nd doivalues at sum pt: $ \frac{24}{5x} = \sin(2x) \qquad f_{x}(0, \frac{\pi}{2}) = \sin(0) = 0 $ $ \frac{3x}{5x^2} = 2\cos(2x) \qquad f_{yy}(0, \frac{\pi}{2}) = -\sin(\pi) = 0 $ $ \frac{24}{5y} = -\sin(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(2y) \qquad f_{yy}(0, \frac{\pi}{2}) = -2\cos(\pi) = 2 $ $ \frac{3x}{5y} = -2\cos(\pi) = -2\cos(\pi$	
$\frac{\partial x}{\partial x} = \frac{2\cos(2x)}{\int_{\eta} (0, \frac{\pi}{2})} = -\frac{\sin(\pi)}{0} = 0$ $\frac{\partial f}{\partial \eta} = -\sin(2\eta) \qquad \qquad f_{\eta\eta}(0, \frac{\pi}{2}) = -\frac{2\cos(\pi)}{0} = 2$	
$\frac{\partial f}{\partial u} = -\sin(2u) \qquad \qquad f_{yy}(0, \overline{z}) = -2\cos(6\tau) = 2$	
Local minima in boly X and y.	

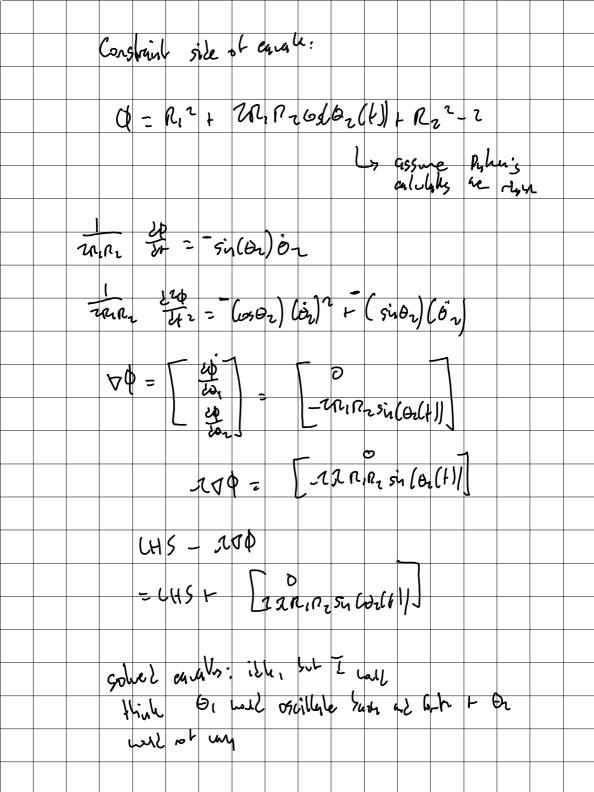












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Hessian ratrix run hand calcs:

$$f = su(x_{H_1}) sin(x_{H_2}) + (cos(x_{H_1}))(sin(x_{H_2}))$$

$$= sin(a|cos(s)) + cos(a|sin(s))$$

$$= sin(x_{H_2}) + cos(x_{H_2}) + (cos(x_{H_2}))(sin(x_{H_2}))$$

$$= sin(x_{H_2}) + cos(x_{H_2}) + (cos(x_{H_2}))(sin(x_{H_2}))$$

$$= sin(a|cos(s)) - cos(a|cos(s))$$

$$= sin(a|cos(s)) - cos(x_{H_2}) + (cos(x_{H_2}))(sin(x_{H_2}))$$

$$= sin(x_{H_2}) + cos(x_{H_2}) + cos(x_{H_2}) + sin(x_{H_2}) + cos(x_{H_2}) + sin(x_{H_2}) + cos(x_{H_2}) + sin(x_{H_2}) + cos(x_{H_2}) + cos(x_{H_2$$

